639

**Philips Consumer Electronics Company**

A Division of Philips Electronics North America Corp.

# Technical Service Data

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**MANUAL 7562**

**B8 Color Television Chassis**
**First Issue: March 1997**

File: 1997: 7562

# MANUAL 7562

# B8 SERIES COLOR TV CHASSIS

# (13B8, 19B8, 20B8, 25B8, & 27B8)

**REFER TO PAGE 3 FOR TABLE OF CONTENTS**

**REFER TO PAGE 10 FOR MODEL INFORMATION**

**REFER TO BACK COVER FOR IMPORTANT SAFETY GUIDELINES**

**SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.**

**CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING.**

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# IMPORTANT SAFETY NOTICE

**Proper service and repair is important to the safe, reliable operation of all Philips Consumer Electronics Company** Equipment. The service procedures recommended by Philips and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.**

**It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Philips could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Philips has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Philips must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.**

*** * Hereafter throughout this manual, Philips Consumer Electronics Company will be referred to as Philips.**

## WARNING

**Critical components having special safety characteristics are identified with a ⚠ by the Ref. No. in the parts list and enclosed within a broken line* (where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematics or exploded views.**

**Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards.**

**Under no circumstances should the original design be modified or altered without written permission from Philips. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.**

*** Broken Line — · — · — · —**

FOR PRODUCTS CONTAINING LASER:

DANGER - Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.
CAUTION - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION - The use of optical instruments with this product will increase eye hazard.

**TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.**

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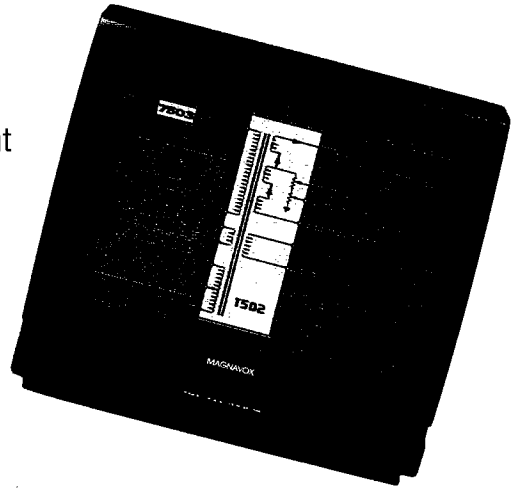


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Composite video from IC271, Pin 6, is buffered by Q221 and then passed through a 4.5MHz Trap, Y221, to remove any sound products present. This signal is buffered again by Q225 before it goes back to IC271, Pin 13. Depending on the part number of IC271, either BS315 or BS316 will be installed. With BS315 installed, The CC Video comes from Q225. If BS316 is installed, the CC Video comes from Pin 38 of IC271. Internal/External switching of the video is done within IC271. The chroma and luminance signals are then processed by the Chroma/Luminance Process block within IC271. Sync input from the Chroma/Luminance block to the Horizontal/Vertical Processing block is applied internally within IC271.

Brightness, Picture, Sharpness, Color, and Tint control voltages are applied to IC271 from Microcomputer, IC300 via the $I^2C$ Bus. The Red, Green, and Blue signals are developed within IC271 and output via Pins 21, 20, and 19. The Black Current Level Set is output from Pin 18. The Red, Green, and Blue video signals from IC271 are applied to the CRT Board. On the CRT Board, these signals are amplified before being applied to the CRT. The Drive and Cutoff controls for CRT Set-Up are controlled by the microprocessor via the $I^2C$ Bus using the Service Test Mode.

Horizontal and Vertical signals are also developed within IC271. Adjustments for Horizontal Centering, Vertical Centering, and Vertical Height are accomplished with the Remote Transmitter via the Service Test Mode. There is no adjustment for the Horizontal Oscillator. The horizontal circuit is a count down type of system that gets its base frequency from the 3.58MHz circuit.

The horizontal signal is applied to a Horizontal Driver, Q502, where the signal is amplified and transformer coupled to the Horizontal Output transistor, Q503. The output from Q503 drives the Integrated Flyback Transformer. The IFT develops the High Voltage, Screen Voltage, Focus Voltage, and Filament Voltage for the Picture Tube. If the voltage in T501 (T502 for 25 and 27 inch sets) goes high, a sample is sent to Q540 and Q541, the shutdown switch. This will enable lowering the High Voltage when it starts to elevate. Scan derived voltages provided by the IFT for use by the chassis are the 200V, +13.5V, and -13.5V Sources. A horizontal pulse is also made available for the chassis from the output circuit of the Horizontal Output transistor.

The Vertical signal exits IC271 at Pin 7 and is applied to the Vertical Output Integrated Circuit, IC550. The vertical signal is output from IC550 and applied to the Vertical Yoke. Vertical Centering and Vertical Height adjustments are performed via the Service Test Mode and Remote Transmitter. Vertical feedback is returned to IC550, Pin 1.

## B8 CHASSIS POWER SUPPLY BLOCK

When a 120Vac Source is connected to the B8 Chassis (**Figure B**), approximately 160Vdc is developed by the Bridge Rectifier circuit. The 160 volts dc goes through T425 to the transistor switch. The start up signal is taken from the neutral leg of the input ac line.

The Power Supply consists of a single integrated circuit operating as a Free-Running Switching Mode Power Supply. The frequency of operation varies with the circuit load. There is no separate power supply for standby. The Power Supply turns On when AC is applied. The Switching Regulator IC starts switching when the initial voltage is applied through the Start circuit. The Switching Regulator and the Drive circuits turns the Switch On and Off to allow current flow through the primary of transformer T425. Energy stored in the primary during the On-time is delivered to the secondaries during the Off-time. Feedback from the Hot secondary is used to control the Switching Regulator. Positive Voltage from the hot secondary is used as B+ for the Switching Regulator.

From the secondaries of T425, the voltages needed to operate the television are developed. The plus 9 volt output is switched for On/Off control.

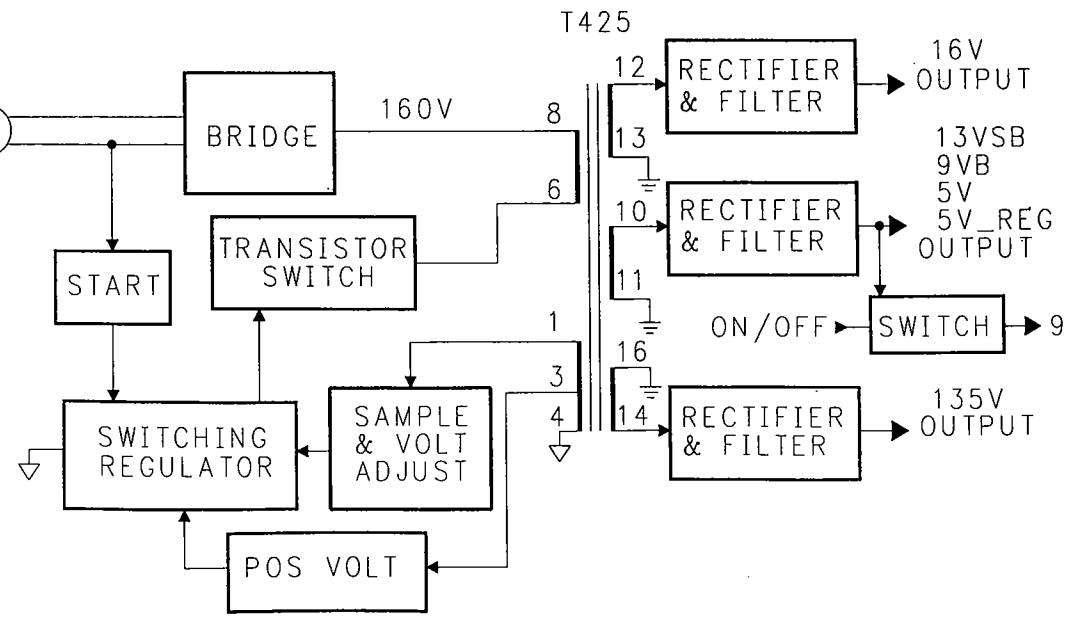



**Figure B - B8 Chassis Block Diagram**

## CHASSIS IDENTIFICATION AND INTERCHANGEABILITY NOTICE

### CHASSIS IDENTIFICATION

An identification label is located on the outside of the cabinet back. The first two characters (25) indicate the screen size of the television and the next two characters (B8) identify the basic chassis series. The last four numbers (7562) following the '04', indicate the Service Manual number for the chassis. Minor changes may not be identified within the letters, however, they will be called out on the schematic as Early Production (E.P.) and Late Production (L.P.) changes. When ordering parts or requesting technical assistance or information, the complete chassis number must be supplied (e.g. 25B804-7562).

### INTERCHANGEABILITY NOTICE

**Important: While the following holds true in most cases, always refer to the most up-to-date information for confirmation of interchangeability.**

The 8 digit Base Number identifies a family of assemblies. The remaining 4 characters (called the Group No.) indicate the type of INTERCHANGEABILITY within the family.

Example: 00EMB827 A001

Base No. Group No.

Note: Families having different Base Numbers cannot be interchanged.

**The ninth digit (first digit of the group number) identifies the group INTERCHANGEABILITY level. This will be an alpha character. Higher groups may replace lower groups, but lower groups cannot be substituted for higher groups.**

**Example: 00EMB827 A001 00EMB827 B002 00EMB827 C003**

**00EMB827 B002 CAN BE REPLACED BY A C003 BUT NOT BY AN A001. IN ADDITION, A C003 CAN BE USED IN PLACE OF EITHER A B002 OR AN A001.**

**The last two digits of the identification number indicate running changes. When a particular identification number is initially assigned, it will be a001. Any change which does not significantly change the operational characters or the external wiring configuration, is a running change within the group. It allows bi-directional INTERCHANGEABILITY within the group.**

**Example: A001 can be used in place of A003, and A003 can be used in place of A001.**

However, if a significant change does occur (which will only allow higher revision substitution), the group identifier (9th position character) must change.

**Example: 00EMB827 A001** (Early Production) **00EMB827 A002 00EMB827 A003 00EMB827 B004 00EMB827 B005** (Late Production)

**Note: 00EMB827 A001** is the initial identification number. All assemblies in the "A" group (9th position character) are interchangeable with each other. All of the assemblies in the "B" group are interchangeable with each other, and any "B" group assembly can be substituted for an "A" group. However, an "A" group assembly cannot be substituted far a "B" group assembly.



## B8 COLOR TV CHASSIS

The B8 Series Chassis is the Statement (low-end) TV Set produced by Philips Consumer Electronics Company for the 1997 model year (**Figure A**). The B8 Chassis is used in TV Sets with 25, and 27 inch CRT's. The B8 Chassis is also used in Commercial TV Sets with 13, 19, 20, 25, and 27 inch CRT's. The chassis orientation is front to rear in the B8 design (sometimes called "North-South"), because the chassis is longer in this direction than across. The B8 Tuning System features 181 Channels with On-Screen Display. The main Tuning System includes the tuner along with the Microcomputer IC and the Memory IC. The Microcomputer communicates with the Memory IC, the Customer Keyboard, the Remote Receiver, the U/V Tuner, the TV Signal Processor, the Stereo Decoder (optional), and the Power On/Off circuitry. The Memory IC retains the settings for Favorite Stations, Customer Control Settings, Mode Switches, and Service/Factory Setup Data.

The chassis features a Very Large Scale Integration (VLSI) IC for TV signal processing. This IC performs Video IF, Sound IF, AGC control, Horizontal Signal processing, Vertical Signal processing, Horizontal/Vertical synchronization, and Chrominance/Luminance processing. The On-Screen Graphics information is placed on the main signal within the TV Signal Processor. On-Screen Graphics generation and Closed Caption decoding are processed within the Microcomputer and the signals are sent to the TV Signal Processor. Automatic Volume Level (AVL - called "SMART SOUND" by marketing) control from the Microcomputer is sent to the AVL IC. The "Smart Sound" function is performed within IC720.

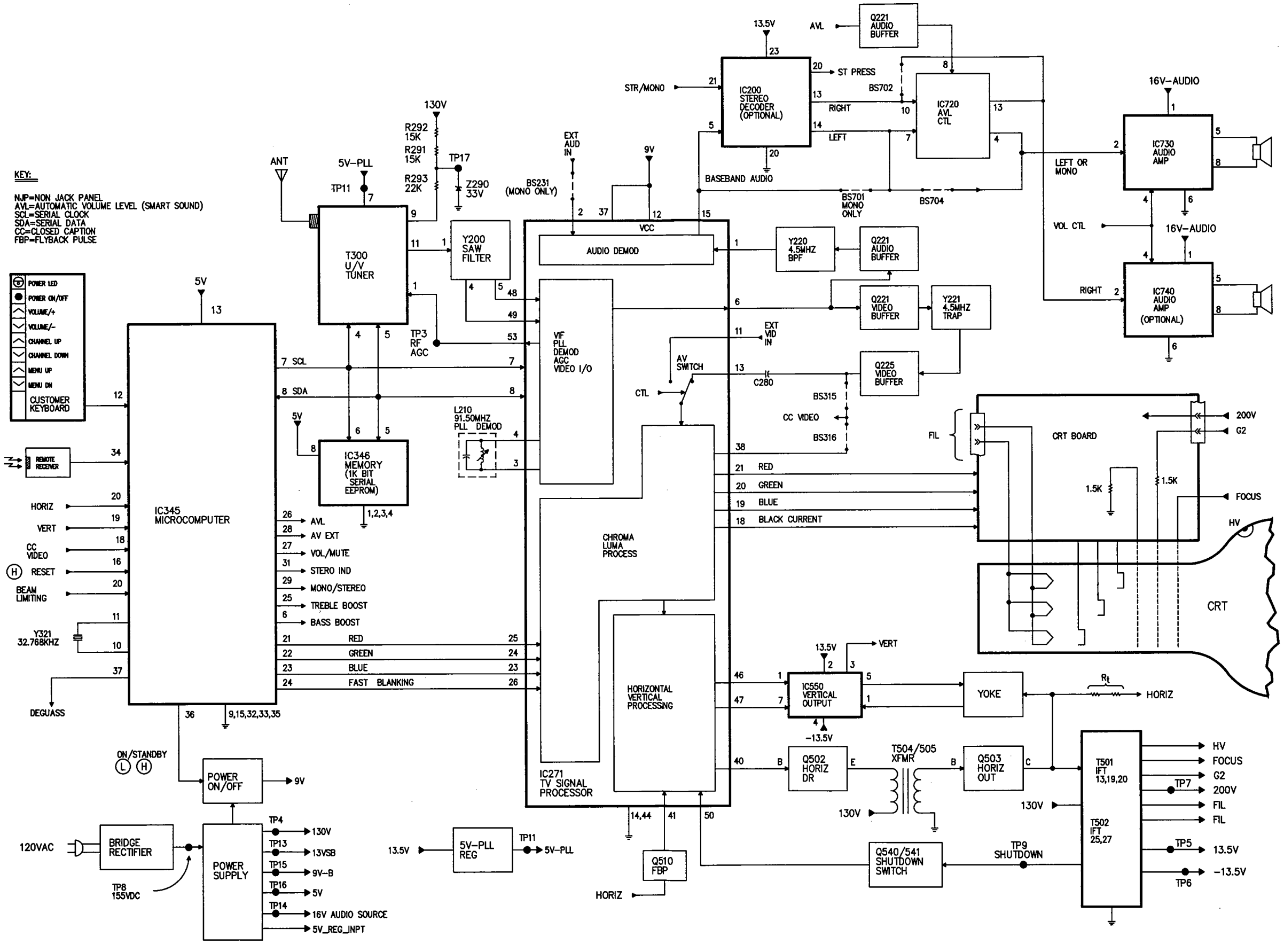
The B8 Chassis features a Switching Mode Power Supply for the main voltage source. A "HOT" ground reference is used in the primary side of the power supply. A "COLD" (signal) ground from the secondary of the power supply is used throughout the rest of the chassis. **AN ISOLATION TRANSFORMER IS REQUIRED WHEN DOING SERVICE ON ANY VERSION OF THE NEW CHASSIS.**

### SIGNAL FLOW

The incoming TV RF signal is applied to the U/V Tuner via the Antenna RF Input. The IF signal is developed within the U/V Tuner, then amplified by an IF Preamplifier located inside the Tuner. The amplified IF signal is sent from Pin 11 of the U/V Tuner to the SAW Filter, Y200. The SAW Filter produces bandpass shaping for the IF signal before it is applied to the TV Signal Processor Integrated Circuit, IC271, for processing. AGC (to the Tuner) and AFT (to the Microcomputer) signals are developed within IC271 and then sent to the Tuning System for RF Amp gain control.

Sound IF signal processing for the B8 Chassis is performed by coupling the 4.5MHz Sound IF signal from IC271, Pin 6, via a Buffer Amplifier, Q221, and 4.5MHz Band Pass Filter, Y220, into IC271, Pin 1. Audio is output from Pin 15 in mono versions and applied to the Audio Amp Output IC, IC730, to drive the speakers. For the stereo equipped sets, the detected baseband audio signal exits IC271, Pin 15, and then enters the Stereo Decoder IC200. The Stereo Decoder has Internal/External switching, via the control input on Pin 21, to allow either the detected baseband audio or External Audio from another source to be routed through and exit to IC730 and IC740.

## FIGURE A - B8 CHASSIS BLOCK DIAGRAM



# PHILIPS CONSUMER ELECTRONICS
# PRACTICAL SERVICE PRECAUTIONS

**IT MAKES SENSE TO AVOID EXPOSURE TO ELECTRICAL SHOCK.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.

**ALWAYS RESPECT VOLTAGES.** While some may not be dangerous in themselves, they can cause unexpected reactions -- reactions that are best avoided. Before reaching into the powered color TV set, it is best to test the high voltage insulation. It's easy to do, and is just a good service precaution.

**BEFORE POWERING UP THE TV WITH THE BACK OFF** (or on a test fixture), attach a clip lead to the CRT DAG ground and to a screwdriver blade that has a well insulated handle. After the TV is powered on and high voltage has developed, probe the anode lead with the blade starting at the case of the High Voltage Transformer (flyback-IFT). Move the blade to within two inches of the connector of the CRT. **IF THERE IS AN ARC, YOU FOUND IT THE EASY WAY WITHOUT GETTING A SHOCK!** If there is an arc to the screwdriver blade, replace the High Voltage Transformer (or the lead, if removable) whichever is causing the problem.

---

**The Model to Module List shown below identifies all electrical modules and assemblies used in each model produced with the (B8) chassis. This information was current at the time of printing.**

**Information concerning cabinet parts and cabinet mounted parts (CRT/yoke/etc...) is shown on page 48.**

**If you are attempting to service a model equipped with the (B8) chassis, the necessary electrical information should be covered in this service manual, even if the corresponding model number is not listed.**

**For location of module service information, please refer to the Table of Contents shown on page 3.**

**Replacement part numbers for each module are provided in the Chassis/Module Replacement Parts List shown on page 32.**

## MODEL TO MODULE LIST

| MODEL | | SCREEN SIZE | BRAND |
|---|---|---|---|
| **TL7119C121** | | 19" | Magnavox |
| 00EMB817 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| **TL7119C127** | | 19" | Magnavox |
| 00EMB817 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| **TL7125C1** | | 25" | Magnavox |
| 00EMB857 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **TL7127C1** | | 27" | Magnavox |
| 00EMB884 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **PB7013C1** | | 13" | Philips |
| 00EMB801 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10664 | Smart Port | | |
| **HC9719C121** | | 19" | Philips |
| 00EMB821 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10640 | Jack Panel | | |
| **HC9719C127** | | 19" | Philips |
| 00EMB822 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10640 | Jack Panel | | |
| **EP7019C121** | | 19" | Philips |
| 00EMB816 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| **EP7019C127** | | 19" | Philips |
| 00EMB818 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| **PB7019C121** | | 19" | Philips |
| 00EMB825 | Main Chassis | | |
| 00APT186 | CRT Module | | |

## MODEL TO MODULE LIST (Continued)

| MODEL | | SCREEN SIZE | BRAND |
|---|---|---|---|
| **PB7019C127** | | 19" | Philips |
| 00EMB826 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| **PL7119C121** | | 19" | Philips |
| 00EMB817 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **PL7119C127** | | 19" | Philips |
| 00EMB819 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **0CV720C1** | | 20" | Philips |
| 00EMB840 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10602 | OCV Module | | |
| 00A10630 | Interface Card | | |
| **PC7220C1** | | 20" | Philips |
| 00EMB840 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10630 | Interface Card | | |
| **PL7120C1** | | 20" | Philips |
| 00EMB843 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **21LL3701** | | 20" | Philips |
| 00EMB845 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00ASD045 | Stereo Module | | |
| **21LL3711** | | 20" | Philips |
| 00EMB846 | Main Chassis | | |
| 00APT186 | CRT Module | | |
| 00ASD045 | Stereo Module | | |
| **EP7025C1** | | 25" | Philips |
| 00EMB856 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **OCV725C1** | | 25" | Philips |
| 00EMB858 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10602 | OCV Module | | |
| 00A10630 | CD Interface | | |
| **PC7225C1** | | 25" | Philips |
| 00EMB858 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10630 | Interface Card | | |
| **PL7125C1** | | 25" | Philips |
| 00EMB857 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **26LL5701** | | 25" | Philips |
| 00EMB853 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00ASD044 | Stereo Module | | |
| **26LL5711** | | 25" | Philips |
| 00EMB854 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00ASD044 | Stereo Module | | |
| **26LW5732** | | 25" | Philips |
| 00EMB874 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00ASD038 | Stereo Module | | |
| **EP7027C1** | | 27" | Philips |
| 00EMB883 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **OCV727C1** | | 27" | Philips |
| 00EMB887 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10630 | Interface Card | | |
| 00A10602 | OCV Module | | |
| **PC7227C1** | | 27" | Philips |
| 00EMB887 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10630 | Interface Card | | |
| **PL7127C1** | | 27" | Philips |
| 00EMB884 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00A10665 | Smart Port | | |
| **29LL6701** | | 27" | Philips |
| 00EMB893 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00ASD046 | Stereo Module | | |
| 00A10671 | Sound Shaper | | |
| **29LL6711** | | 27" | Philips |
| 00EMB894 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00ASD046 | Stereo Module | | |
| 00A10671 | Sound Shaper | | |
| **HD2518C1** | | 25" | Ph/Mag. |
| 00EMB852 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **TR2502C1** | | 25" | Ph/Mag. |
| 00EMB850 | Main Chassis | | |
| 00ATP187 | CRT Module | | |
| **TR2517C1** | | 25" | Ph/Mag. |
| 00EMB855 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **TS2544C1** | | 25" | Ph/Mag. |
| 00EMB860 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **TS2554C1** | | 25" | Ph/Mag. |
| 00EMB865 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **TS2574C1** | | 25" | Ph/Mag. |
| 00EMB870 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| 00ASD041 | Stereo Module | | |
| **25TR15C1** | | 25" | Ph/Mag. |
| 00EMB855 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **25TS54C1** | | 25" | Ph/Mag. |
| 00EMB865 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **HD2717C1** | | 27" | Ph/Mag. |
| 00EMB881 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **TS2744C1** | | 27" | Ph/Mag. |
| 00EMB880 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **TS2754C1** | | 27" | Ph/Mag. |
| 00EMB885 | Main Chassis | | |
| 00APT187 | CRT Module | | |

## MODEL TO MODULE LIST (Continued)

| MODEL | | SCREEN SIZE | BRAND |
|---|---|---|---|
| **TS2768C1** | | 27" | Ph/Mag. |
| 00EMB886 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **XS2754C1** | | 27" | Ph/Mag. |
| 00EMB880 | Main Chassis | | |
| 00APT187 | CRT Module | | |
| **27TS54C1** | | 27" | Ph/Mag. |
| 00EMB885 | Main Chassis | | |
| 00APT187 | CRT Module | | |

| MODEL | SCREEN SIZE | BRAND |
|---|---|---|
| **MODELS WITH NO CHASSIS INFORMATION AT TIME OF PRINTING** | | |
| CH1719G1 | 19" | Philips |
| MON725C1 | 25" | Philips |
| SCN725C1 | 25" | Philips |
| SCN727C1 | 27" | Philips |
| XS2554C1 | 25" | Ph/Mag. |

### CHASSIS FEATURE LIST

| Chassis | Screen Size | AVL | Vol. Lim. | Clock w/wo Alarm | Smart Picture | SVHS | Feature Word Registers 53* | 54* | 58# |
|---|---|---|---|---|---|---|---|---|---|
| 00EMB801 | 13" | YES | YES | — | — | YES | — | — | 87 |
| 00EMB816 | 19" | YES | YES | — | — | — | — | — | 28 |
| 00EMB817 | 19" | YES | YES | — | — | — | — | — | 28 |
| 00EMB818 | 19" | YES | YES | — | — | — | — | — | 28 |
| 00EMB819 | 19" | YES | YES | — | — | — | — | — | 28 |
| 00EMB821 | 19" | YES | YES | — | — | — | — | — | 78 |
| 00EMB822 | 19" | YES | YES | — | — | — | — | — | 78 |
| 00EMB825 | 19" | YES | YES | — | — | YES | — | — | 87 |
| 00EMB826 | 19" | YES | YES | — | — | YES | — | — | 87 |
| 00EMB830 | 19" | YES | YES | — | — | — | — | — | — |
| 00EMB831 | 19" | YES | YES | — | — | — | — | — | — |
| 00EMB840 | 20" | YES | YES | — | — | YES | — | — | 2E |
| 00EMB843 | 20" | YES | YES | — | — | — | — | — | 28 |
| 00EMB845 | 20" | YES | — | WITH | YES | — | 6C | B1 | — |
| 00EMB846 | 20" | YES | — | WITH | YES | — | 6C | B1 | — |
| 00EMB850 | 25" | — | — | — | — | — | 0 | 0 | — |
| 00EMB852 | 25" | — | YES | — | — | — | 0 | 4 | — |
| 00EMB853 | 25" | YES | — | WITH | YES | — | 6C | B1 | — |
| 00EMB854 | 25" | YES | — | WITH | YES | — | 6C | B1 | — |
| 00EMB855 | 25" | — | — | W/O | YES | — | 1E | 1 | — |
| 00EMB856 | 25" | YES | YES | — | — | — | — | — | 28 |
| 00EMB857 | 25" | YES | YES | — | — | — | — | — | 28 |
| 00EMB858 | 25" | YES | YES | — | — | — | — | — | 2E |
| 00EMB860 | 25" | — | — | — | — | — | 0 | 2 | — |
| 00EMB865 | 25" | — | — | W/O | YES | — | 1E | 23 | — |
| 00EMB870 | 25" | — | — | W/O | YES | — | 1E | 23 | — |
| 00EMB873 | 25" | YES | — | WITH | YES | — | 6C | B3 | — |
| 00EMB874 | 25" | YES | — | WITH | YES | — | 6C | B3 | — |
| 00EMB880 | 27" | — | — | — | — | — | 0 | 2 | — |
| 00EMB881 | 27" | — | YES | — | — | — | 0 | 6 | — |
| 00EMB883 | 27" | YES | YES | — | — | — | — | — | 28 |
| 00EMB884 | 27" | YES | YES | — | — | — | — | — | 28 |
| 00EMB885 | 27" | — | — | W/O | YES | — | 1E | 23 | — |
| 00EMB886 | 27" | — | — | W/O | YES | — | 1E | 63 | — |
| 00EMB887 | 27" | YES | YES | — | — | — | — | — | 07 |
| 00EMB893 | 27" | YES | — | WITH | YES | — | 6C | B3 | — |
| 00EMB894 | 27" | YES | — | WITH | YES | — | 6C | B3 | — |

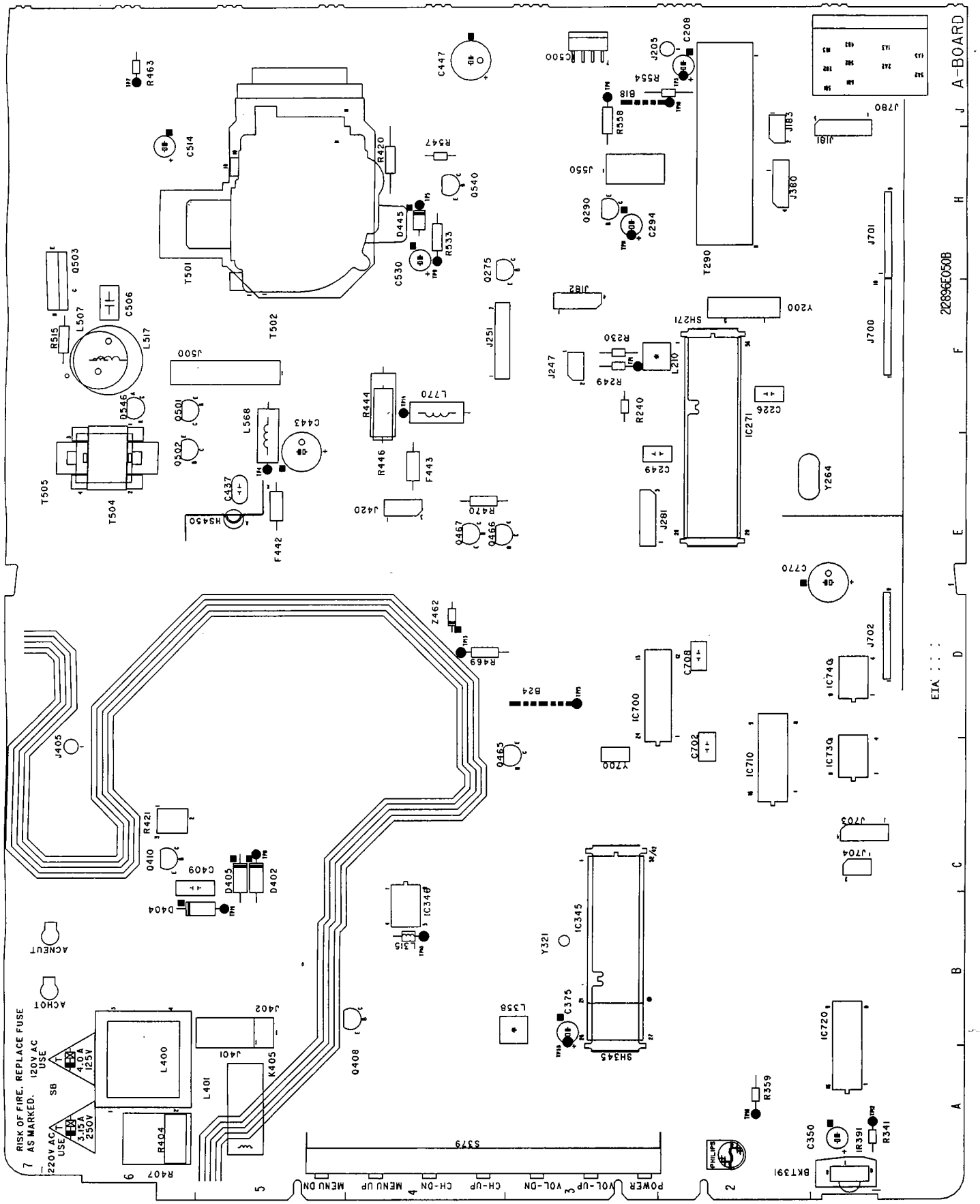
NOTE: *NOT IN COMMERCIAL CHASSIS ONLY CONSUMER
#NOT IN CONSUMER CHASSIS ONLY COMMERCIAL

## CHASSIS/MODULE REPLACEMENT PARTS LIST

| ASSEMBLY NUMBER | DESCRIPTION | PART NO. |
|---|---|---|
| 00APT186 | CRT | — — — |
| 00APT187 | CRT | — — — |
| 00A10602 | OCV Module | 4835 219 57645 |
| 00A10630 | Smart Port | — — — |
| 00A10640 | Jack Panel | — — — |
| 00A10664 | Smart Port | — — — |
| 00A10665 | Smart Port | — — — |
| 00A10671 | Sound Shaper | — — — |
| 00ASD038 | Stereo Module | 4835 219 57636 |
| 00ASD041 | Stereo Module | 4835 219 57639 |
| 00ASD046 | Stereo Module | — — — |
| 00ASD044 | Stereo Module | 4835 219 57642 |
| 00ASD045 | Stereo Module | — — — |
| 00EMB801 | 13" Main Chassis | 4835 219 28766 |
| 00EMB816 | 19" Main Chassis | — — — |
| 00EMB817 | 19" Main Chassis | — — — |
| 00EMB818 | 19" Main Chassis | — — — |
| 00EMB819 | 19" Main Chassis | 4835 219 28695 |
| 00EMB821 | 19" Main Chassis | — — — |
| 00EMB822 | 19" Main Chassis | 4835 219 28696 |
| 00EMB825 | 19" Main Chassis | — — — |
| 00EMB826 | 19" Main Chassis | — — — |
| 00EMB830 | 19" Main Chassis | — — — |
| 00EMB831 | 19" Main Chassis | — — — |
| 00EMB840 | 20" Main Chassis | 4835 219 28768 |
| 00EMB843 | 20" Main Chassis | 4835 219 28769 |
| 00EMB845 | 20" Main Chassis | — — — |
| 00EMB846 | 20" Main Chassis | — — — |
| 00EMB850 | 25" Main Chassis | 4835 219 28697 |
| 00EMB852 | 25" Main Chassis | 4835 219 28698 |
| 00EMB853 | 25" Main Chassis | 4835 219 28699 |
| 00EMB854 | 25" Main Chassis | 4835 219 28701 |
| 00EMB855 | 25" Main Chassis | 4835 219 28702 |
| 00EMB856 | 25" Main Chassis | — — — |
| 00EMB857 | 25" Main Chassis | 4835 219 28771 |
| 00EMB858 | 25" Main Chassis | 4835 219 28772 |
| 00EMB860 | 25" Main Chassis | 4835 219 28703 |
| 00EMB865 | 25" Main Chassis | 4835 219 28704 |
| 00EMB870 | 25" Main Chassis | 4835 219 28705 |
| 00EMB873 | 25" Main Chassis | 4835 219 28773 |
| 00EMB874 | 25" Main Chassis | 4835 219 28774 |
| 00EMB880 | 27" Main Chassis | 4835 219 28706 |
| 00EMB881 | 27" Main Chassis | 4835 219 28775 |
| 00EMB883 | 27" Main Chassis | — — — |
| 00EMB884 | 27" Main Chassis | 4835 219 28707 |
| 00EMB885 | 27" Main Chassis | 4835 219 28708 |
| 00EMB886 | 27" Main Chassis | 4835 219 28776 |
| 00EMB887 | 27" Main Chassis | 4835 219 28777 |
| 00EMB893 | 27" Main Chassis | — — — |
| 00EMB894 | 27" Main Chassis | — — — |

— — — = No part number available at time of printing.

## FIGURE 1 - B8 COMPONENT LOCATION DIAGRAM



**Caution:The B8 Chassis incorporates a "Hot" ground system. Always use a separate isolation transformer when applying power to the exposed chassis.**

**Service Adjustment Notes:**
Unless Otherwise Specified:

1. All service adjustments are "Hot" voltagewise. For maximum safety, ensure the use of properly insulated tools.
2. Many of the following adjustments are made through software intervention. The remote transmitter supplied with the set may be used in order to modify register values stored within the EEPROM IC on the Main Chassis Board Assembly. The G96SVC Service Remote is an ideal tool for this purpose. Order 4835 219 17656. Refer to the SERVICE MODE covered later.
3. Refer to the Component Location Diagram (Figure 1) for a quick location of test points or service adjustable controls.
4. Grid locations (Ex.: D-2) next to control reference numbers refer to the Main Chassis Printed Circuit Board Illustrations.

**Focus**

1. Tune to a local station and adjust the Focus Control (located on the Flyback Transformer) for best picture details at high light conditions.

**SCREEN CONTROL (G2) SETUP (13", 19", & 20")**

1. Apply an NTSC Color Bar test pattern, with the color "off", to the antenna input of the TV Receiver.
2. Select the active channel.
3. Set all the customer picture controls to mid-range.
4. Using an oscilloscope measure and note the peak to peak voltage of the CRT Cathodes. Use the legs of R11, R12, and R13 which tie to the CRT socket.
5. Using the cathode with the highest peak to peak voltage, noted in step 4, adjust the Screen Voltage (G2) control (located on the Flyback Transformer) to obtain 120Vp-p.

**SCREEN CONTROL (G2) SETUP (25" & 27")**

1. Apply an NTSC Color Bar test pattern, with the color "off", to the antenna input of the TV Receiver.
2. Select the active channel.
3. Set all the customer picture controls to mid-range.
4. Using an oscilloscope measure and note the peak to peak voltage of the CRT Cathodes. Use the legs of R60, R61, and R62 which tie to the CRT socket.
5. Using the cathode with the highest peak to peak voltage, noted in step 4, adjust the Screen Voltage (G2) control (located on the Flyback Transformer) to obtain 120Vp-p.

**Adjusting The Picture**

**Note:** The Color Purity and Convergence Adjustments described below should be performed only after installation of a new CRT or Deflection Yoke Assembly otherwise, it will not be necessary to remove the rubber wedges. Minor corrections for purity and convergence can be accomplished through the use of the Purity and Convergence Assembly located on the neck of the CRT.

**Degaussing the Receiver**

1. Position the TV receiver so that the screen faces the same direction (North, South, East, or West) that it will be facing while in use.
2. Before the set is turned on, thoroughly Degauss the entire receiver.
   a) Move a Degaussing Coil in a circular motion slowly around the sides and the front face plate of the receiver.
   b) Withdraw the Degaussing Coil from the receiver at least six feet before disconnecting it from its power source.

**Convergence and Purity Adjustment Procedures**
**Pre-Convergence Adjustments**
**(Perform Degauss Procedure first)**

1. Place the multi-pole Purity and Convergence Assembly with the 2-Y pole Purity Rings directly in the gap between the G2 and G3 (Focus Grids). (As shown in Figure 2)

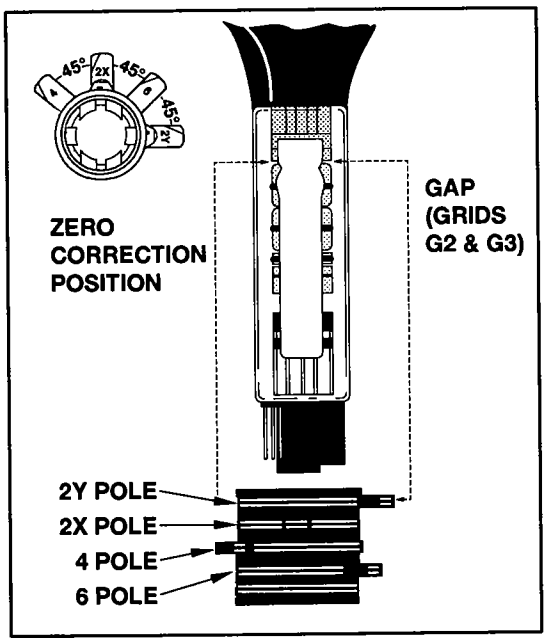



**Figure 2 - Convergence and Purity Assembly**

2. Connect a Center Cross or Crosshatch pattern to the Antenna terminals.
3. Enter Service Page "G" (White Balance). Set the Green control to minimum.
   (See Service Test Mode Entry and Exit)
4. Loosen the Yoke Clamp screws, pull the Yoke back and remove the three Yoke wedges.
5. Slide the yoke all the way forward so that it rests against the bell of the CRT.
6. Tighten the Yoke Clamp screw so that the Yoke does not drop away from the bell of the CRT.
7. Slowly spread and, if necessary, rotate the 2-Y pole purity rings so that the red and blue lines are at least parallel and preferably coincide at the 6:00 and 12:00 position. (Refer to figure 3).
8. Do not exit Service Page "G".

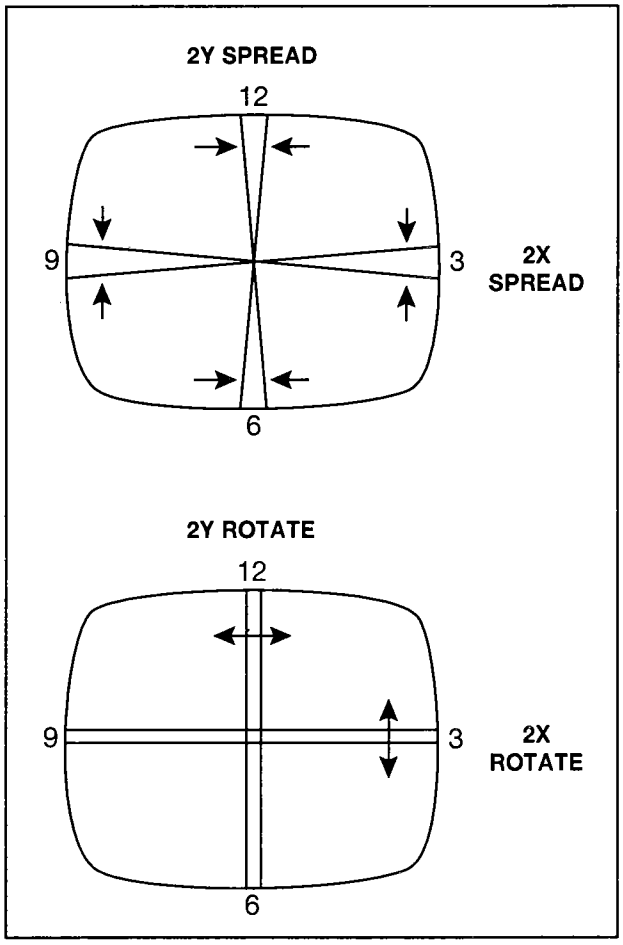



**Figure 3**

### Color Purity Adjustment

1. Connect a White Screen signal to the Antenna terminals.
2. Use Service Page G to set the Green control to maximum. Set the Blue control to minimum.
3. Enter Service Page A.
4. Note that the set is in bank ("00").
5. Press the Channel Up (Cursor Up) button on the Remote transmitter to change the Register to 68.
6. Note the Value stored in Register 68 Value .....
7. Press the Volume down button on the Remote Transmitter to set the value to its minimum (00).
8. Slowly spread the 2-X Pole Purity Rings to center the Green portion of the screen leaving the same amount of Red on the right side as there is Blue on the left.
9. Loosen the Yoke Clamp screws and slide the Yoke back to the point of best Green Purity.
10. Tighten the Yoke Clamp screw slightly so that the Yoke can still be moved with some friction.
11. Proceed to Static Center Convergence.
12. Re-enter Service Page A, Bank 00 and Register 68.
13. Reset this register to the value noted in step 6.
14. Re-enter Service Page G and reset the Green and Blue Registers to their mid-range positions.

### Static Center Convergence

1. Connect a Center Cross pattern or a Crosshatch pattern to the Antenna input to ensure that the yoke is not tilted. Rotate the yoke, if necessary, to obtain a level raster.
2. Use Service Page G to set the Green control to minimum.
3. Set the Blue control to its mid-range position.
4. Slowly spread and, if necessary, rotate the 4-Pole Magnetic Rings to converge Red and Blue lines at the center of the screen.
5. Reset the Green Control to mid-range.
6. Slowly spread and, if necessary, rotate the 6-Pole Magnetic Rings to converge Red/Blue on Green lines at the center of the screen.
7. Repeat the procedure for optimum performance.

### Dynamic Edge Convergence

**Note:** Three rubber wedges are used to secure the correct position of the Deflection Yoke. They are to ultimately be placed as shown in figure 4c or 5c.

1. Apply a crosshatch pattern signal to the antenna input.
2. Use Service Page "G" to set the green control to minimum.
3. Tilt the Yoke Up and Down to converge the Red and Blue vertical lines at the 6 and 12 o'clock positions and the Red and Blue Horizontal lines at the 3 and 9 o'clock positions (See Figure 6).
4. When the correct position has been found, place a rubber wedge between the Yoke and the CRT. If the yoke is tilted UP, place wedge 1 as shown in Figure 4a. If the Yoke is tilted DOWN, place wedge 1 as shown in Figure 5a.
5. Tilt the Yoke to the left and right to find the point of best possible convergence of the Red and Blue lines at the edges, top and bottom of the screen as seen in Figure 7. When the correct position is located, place wedges 2 and 3 as seen in Figure 4b or 5b.
6. Now remove wedge 1 and place it as shown in Figure 4c or 5c.
7. Set the green control back to its mid-range position.
8. Proceed to the White Balance procedure. (See Service Mode Procedure)

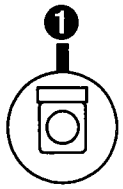



**Fig. 4a**

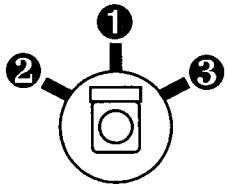



**Fig. 4b**

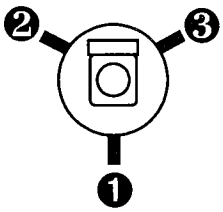



**Fig. 4c**

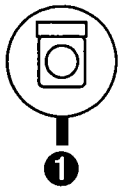



**Fig. 5a**

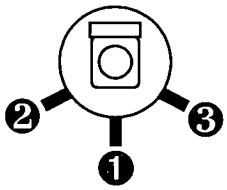



**Fig. 5b**

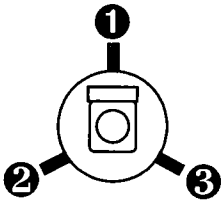



**Fig. 5c**

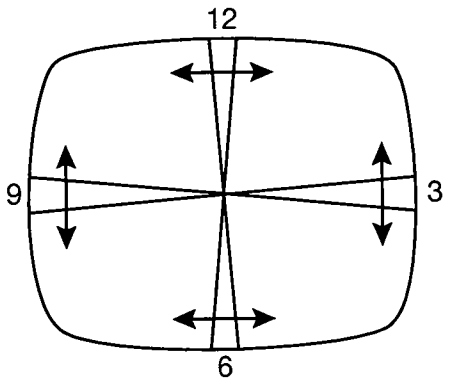



**Figure 6 -Tilt the Yoke up and down to converge the Red and Blue vertical lines at the 6 and 12 o'clock positions, and the Red and Blue horizontal lines at the 3 and 9 o'clock positions.**

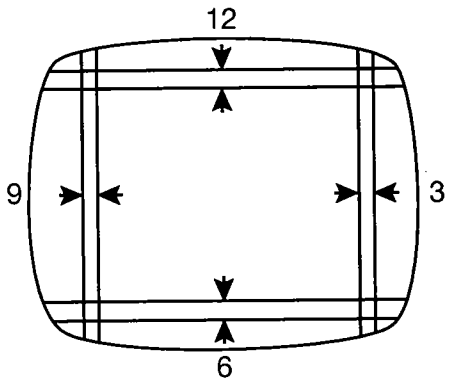



**Figure 7 -Tilt the Yoke to the left and right to converge Red and Blue lines at the 6 and 12 o'clock positions, and Red and Blue vertical lines at the 3 and 9 o'clock position.**

## SERVICE MODE

**Note:** Many of the following adjustments are made through software intervention. A Remote Transmitter is required in order to modify register values stored within the EEPROM IC on the Main Chassis Board.

The G96SVC Service Remote is an ideal tool for this purpose. Order 4835 219 17656.

The service mode makes it possible to change the values of special memory registers in the EEPROM IC (IC302). These registers affect the customer adjustments and other functions. These registers also make many other service adjustments possible that previously would have been handled by conventional controls mounted on the P.C. Board.

### Service Mode Entry and Exit:

Using the remote transmitter, enter the following seven-button sequence to activate the Service Mode:

06-25-96-Menu

**Note:** This sequence must be entered consecutively without allowing the on screen display to time out between entries.

### Exit Service Mode

To exit the Service Test Mode procedure enter Service Page I and press the Volume Up button on the remote transmitter.

To save the current modification of the register data, disconnect the set from its AC source.

When the receiver is operating in the Service Mode, all normal on-screen displays are suppressed and replaced by a special display. This display is shown in Figure 8.

### Service

The first letter on the top line is an S. This letter indicates that the set is in the Service Mode.

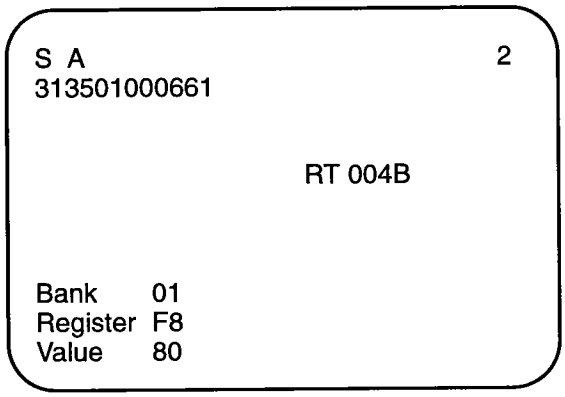



**Figure 8 - B8 Test Mode Display**

## SERVICE PAGES

The second letter indicates which Service Page the set is currently in.

A = Setting Feature Word and other adjustments (See Chassis Feature Chart on Page 6)
B = AFC Alignment (IF-PLL)
C = AGC Alignment
D = Stereo Input Level *
E = Wideband/Spectral Stereo Adjustment *
F = DO NOT USE - SPECIAL FACTORY STEREO SETUP
G = White Balance (White Point)
H = Horizontal Center & Vertical Geometry
I = Exit Service Mode

* If available

The available Service Pages can be accessed by pressing the Menu button on the remote transmitter to scroll from page A to page I or accessed directly by entering the corresponding number key on the Remote Transmitter.

**Table 1 - Direct Access to Service Pages**

| #Key = Page | # = Page | # = Page |
|---|---|---|
| 1 = A | 4 = D | 7 = G |
| 2 = B | 5 = E | 8 = H |
| 3 = C | 6 = F* | 9 = I |

*** = Do not use**

### Changing Channels while in the service mode

The number showing at the top right corner of the display is the currently tuned channel. To change channels press the number zero "0" button on the Remote Transmitter to enter the "Virtual User Mode" . Then change the channel by pressing the channel up or channel down button on the remote transmitter.

To exit the "Virtual User Mode" and re-enter the Service Mode simply press the number zero "0" button on the remote transmitter and the set will toggle back to the service test mode.

### Software

The number shown in the upper middle of the display (31350100661) is the current level of software in use.

### Run Timer

The letters RT at the middle-left of the display stand for Run Timer. The numbers to the right of the these letters indicate, in Hexadecimal format, how many hours the set has been running.

### Setting Feature Words. (Service Page A)

1. To set feature words, enter Service Page A.
2. To select the desired register use the Channel Up/Channel Down keys on the remote transmitter.
3. To adjust the desired register use the Volume Up (Cursor Right) or Volume Down (Cursor Left) keys on the remote transmitter.
4. To save the information and proceed to AFC Alignment press the "Menu" button on the remote Transmitter. NOTE: To go to the next page and NOT save changes press Status on the remote transmitter.
5. To proceed to AFC Alignment without saving the altered information press the "Status/Exit" button on the remote transmitter.

### Defaulting to Factory Settings (Loading of Micro ROM Codes)

**WARNING: THIS PROCEDURE SHOULD NOT BE EXECUTED UNLESS UNDEFINED MEMORY ADDRESSES ARE ALTERED, COMPLETE SYSTEM LOCK OCCURS OR MEMORY DEVICES ARE REPLACED.**

THE FOLLOWING PROCEDURE WILL DEFAULT ALL CUSTOMER, FACTORY AND SERVICE SETTINGS TO A PRE-DEFINED SETTING. UPON EXECUTING THIS PROCEDURE THE FEATURE WORD AND SERVICE ADJUSTMENTS WILL NEED TO BE SET. STEREO ALIGNMENT WILL BE LOST.

1. Enter the Service Mode by selecting 06-25-96-Menu using the remote transmitter.
2. Service Page A should be present on the screen upon entry into the Service Mode.
3. Press and release the Alternate Channel (A/CH or Surf) function of the remote transmitter.
4. Press and release the Menu function to save the data.
5. Exit the Service Mode by repeatedly selecting the Menu or by pressing the 9 button on the remote transmitter to enter Service Page I.

### Defaulting to Factory Settings (Loading of Micro ROM Codes) (continued)

6. Press the Volume up button while in Service Page I to power the unit off.
7. Momentarily remove AC power from the chassis to complete the exit and save process. ROM Defaults are now loaded into the EEPROM.

### AFC Alignment (IF-PLL) (Service Page B)

1. For AFC alignment enter Service Page B.
2. Press the Channel Up or Channel Down button on the remote transmitter to select an active channel and ignore AFC.
3. To start AFT alignment press the Volume Up button on the remote transmitter.
4. To save the updated AFC Register data and go to the next step press the Menu button on the remote transmitter.
5. To go to the next step without saving the updated register data press the Status/Exit button.
6. To exit the Service Mode procedure enter Service Page I and press the Volume Up button on the remote transmitter.
7. To save the current modification of the register data, disconnect the set from its AC source.

### AGC Alignment (Service Page C)

1. For AGC Alignment enter Service Page C.
2. Tune to a normally snow free station.
3. Increase the AGC takeover point by pressing the Volume Up button on the remote transmitter until snow appears.
4. Decrease the AGC takeover point by pressing the Volume Down button on the remote transmitter until snow is removed. Values less then 10 may cause interference on strong signals.
5. To Save the data stored in the register and proceed to the next Service Page press the Menu button on the remote transmitter.
6. To exit the AGC Service Page without saving the stored data press the Status/Exit button on the remote transmitter.
7. To exit the Service Mode procedure enter Service Page I and press the Volume Up button on the remote transmitter.

   To save the current modification of the register data, disconnect the set from its AC source.

### Stereo Alignment (Service Pages D and E)

**Note:** The following procedures were performed with a Sencore VG91 Universal Video Generator and must be performed while the set is in the Service Mode.

### Input Level Adjustment (Service Page D)

1. Set VG91 as follows: STD TV channel 3, RF-IF Range set to HI, RF-IF Level set to NORMAL (1), Video Pattern = Raster, R-G-B raster controls OFF, Mode switch set to L+R, Audio Frequency set to 300Hz, and 0 Pilot (Maximum counterclockwise).
2. Connect RF output to television antenna input.
3. Adjust VG91 level to remove snow from raster.
4. Enter Service Page D for Stereo Input Level adjustment

**Input Level Adjustment (Service Page D) (continued)**

5. Using the volume up (Cursor Right) and Volume down (Cursor Left) buttons adjust for a level of 1.4 volts peak to peak on an oscilloscope at TP52.
6. To save the register data and proceed to the next Service Page press the Menu button on the remote transmitter.
7. To exit the Stereo Input Level adjustment without saving the updated data and proceed to the next Service Page Press the Status/Exit button on the remote transmitter.
8. To exit the Service Test Mode procedure enter Service Page I and press the Volume Up button on the remote transmitter.

   To save the current modification of the register data, disconnect the set from its AC source.

**Wideband/Spectral Adjustment (Service Page E)**

1. Change the VG91 as follows: Mode switch set to L Channel, Stereo Pilot set for 100% NORM.
2. Enter Service Page E.
3. Using the Channel Up (Cursor Up) and Channel Down (Cursor Down) buttons on the remote transmitter adjust Wideband for a null at TP53 on an oscilloscope.
4. Change the VG91 as follows: Audio frequency set to 3 kHz.
5. Using the volume up (Cursor Right) and Volume down (Cursor Left) buttons on the remote transmitter adjust Spectral for a null at TP53 on an oscilloscope.
6. To save the stored register data, skip Service Page F (Auto Stereo Separation alignment), and go directly to Service Page G press the Menu button.
7. To exit the Service Mode procedure enter Service Page I and press the Volume Up button on the remote transmitter.
8. To save the current modification of the register data, disconnect the set from its AC source.

**White Balance Gray Scale (Service Page G)**

This chassis incorporates an Auto Kine Bias circuit which continuously monitors and corrects the bias of the CRT and compensates for normal emission level changes of the tube. Confirm the correct setting of the Screen (G2) setting prior to completing this procedure.

1. Enter Service Page G.
2. Apply a NTSC Color Bar Generator to the antenna input of the Television receiver.
3. Press the zero "0" button on the remote transmitter to temporarily exit the service mode.
4. Use the channel up or channel down function to select the active channel.
5. While in the user mode confirm that the Brightness, Picture and Tint Controls are set to their mid-range position.
6. Set the color to its minimum level

**Note:** No color should be observed in the picture.

7. Re-enter the service mode by pressing the zero "0" button on the remote transmitter.
8. Set the value of the Green and Blue registers to their default value of 20.

**White Balance Gray Scale (Service Page G) (continued)**

9. Use the Volume up to increase and the Volume down to decrease the Green Bias level.
10. Use the Channel up to increase and the Channel down to decrease the Blue bias level.
11. Adjust the Green and Blue registers using the functions defined in steps 8 through 10 to obtain a balanced black and white picture.

**Note:** Adjustment of the Red bias level may be necessary. To adjust the Red level use the following procedure.

1. Exit and save the changes to Service Page G by pressing Menu on the remote transmitter
2. Enter Service Page A. (Press #1)
3. Press the Channel Up (Cursor Up) button on the Remote transmitter to change the Register to 68.
4. Press the Volume Up button on the Remote transmitter to increase and the Volume down button to decrease the Red bias level. To view the change as it affects the picture alter the register number and return to register 68 if additional change is needed. When complete press Menu to save the change.
5. Return to Service Page G by pressing #7 (if needed).
6. Exit and save changes by going to Service Page I (#9) and pressing the Volume Up button on the remote transmitter.
7. To complete saving the changes remove and reapply AC power.

**Horizontal Centering**
**Vertical Height / Linearity**

1. Enter Service Page H.
2. Apply a cross hatch pattern to the antenna input of the Television receiver.
3. Temporarily exit the service mode by pressing the zero "0" button on the remote transmitter.
4. Select the active channel by pressing the channel up or channel down button on the remote transmitter.
5. Re-enter the service mode by pressing the zero "0" button on the remote control.

**Horizontal Centering**

1. Use the volume up button on the remote transmitter to position the picture to the right. The volume down button positions the picture to the left.
2. Using the crosshatch pattern as reference adjust the picture for optimum horizontal centering.

**Note:** Horizontal centering function only centers the picture information not the on screen displays.

**Vertical Height and Linearity**

1. The Vertical Height can be adjusted by using the Channel Up button on the remote transmitter to increase the Vertical Height and the Channel Down button to reduce the height.
2. The Vertical Linearity (V-Slope) can be adjusted by using the Status button on the remote transmitter to increase the linearity and the Mute button to reduce the linearity.

**Vertical Height and Linearity (continued)**

3. Adjustment of the Vertical Height and Linearity are interactive. If minor adjustment is required use the appropriate adjustment defined in step 1 to make the corrections. If complete alignment is required follow the procedure described in steps 4 through 9.
4. Reduce the Vertical Height to a value of 00 by using the Channel Down button on the remote transmitter.
5. Apply a crosshatch pattern to the antenna input.
6. Adjust the Vertical Linearity (V-Slope) using the Mute and Status function to obtain equal linearity (box size) of the crosshatch pattern.
7. Use the Channel Up function to increase the Vertical Height to slightly over scan the vertical at the top and bottom of the picture.
8. Refine the Vertical Height and Linearity as required for optimum vertical scan.
9. To adjust Vertical Shift (centering) and Vertical S-Correction (linearity in center area) do the following.
10. Exit and save Service Page H by pressing SMART on the remote transmitter.

**Vertical Height and Linearity (continued)**

11. Enter Service Page A (#1) and select register 66 (S-Correct) or register 67 (center) as needed by using the cursor up and down buttons on the remote transmitter.
12. Use the volume up/down buttons on the remote transmitter to adjust the displayed register.
13. NO EFFECT WILL BE SEEN UNTIL THE REGISTER NUMBER IS CHANGED. Toggle the register number back and forth between 66 to 67 as you adjust to view the changes using the cursor up and down buttons.
14. When complete press Menu to save the adjustment, press 9 to go to Service Page I
15. Press Volume up (+) to exit the Service Mode and save all changes. Remove AC power and reapply to complete the save.

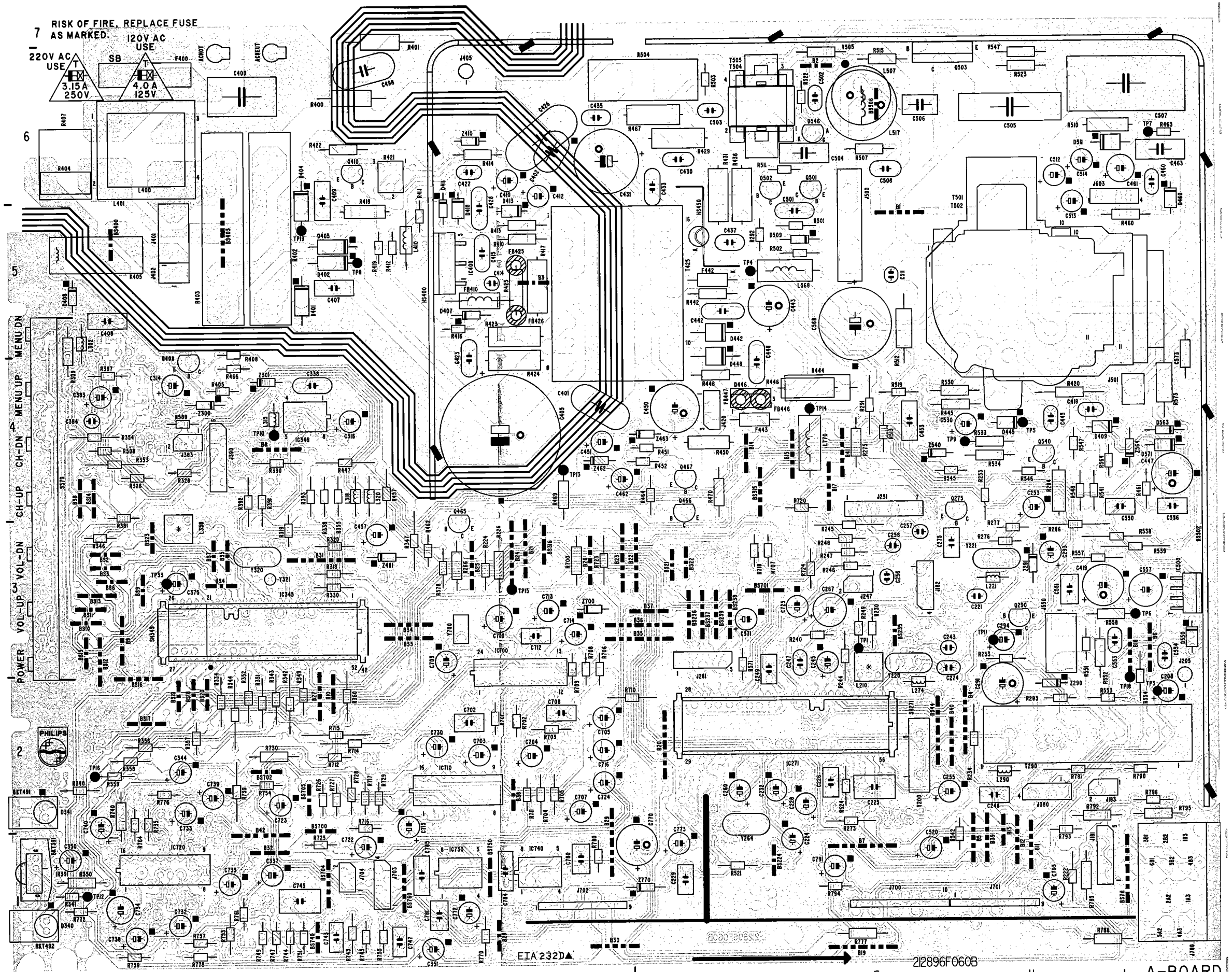
**Exit Service Mode**

To exit the Service Mode procedure enter Service Page I and press the Volume Up button on the remote transmitter.

To save the current modification of the register data, disconnect the set from its AC source.

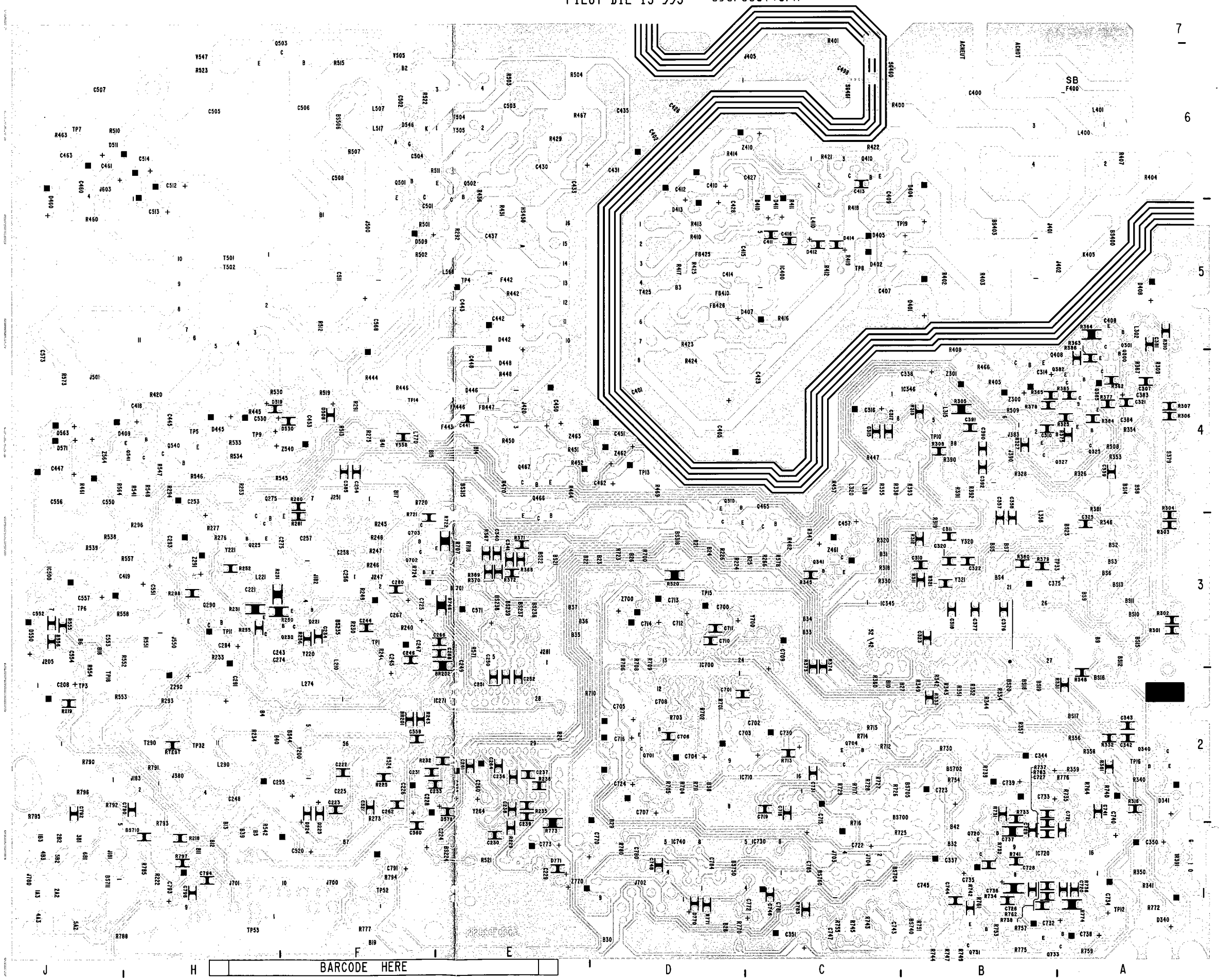
## SERVICE NOTES

## B8 MAIN CHASSIS P.C. BOARD (TOP VIEW)

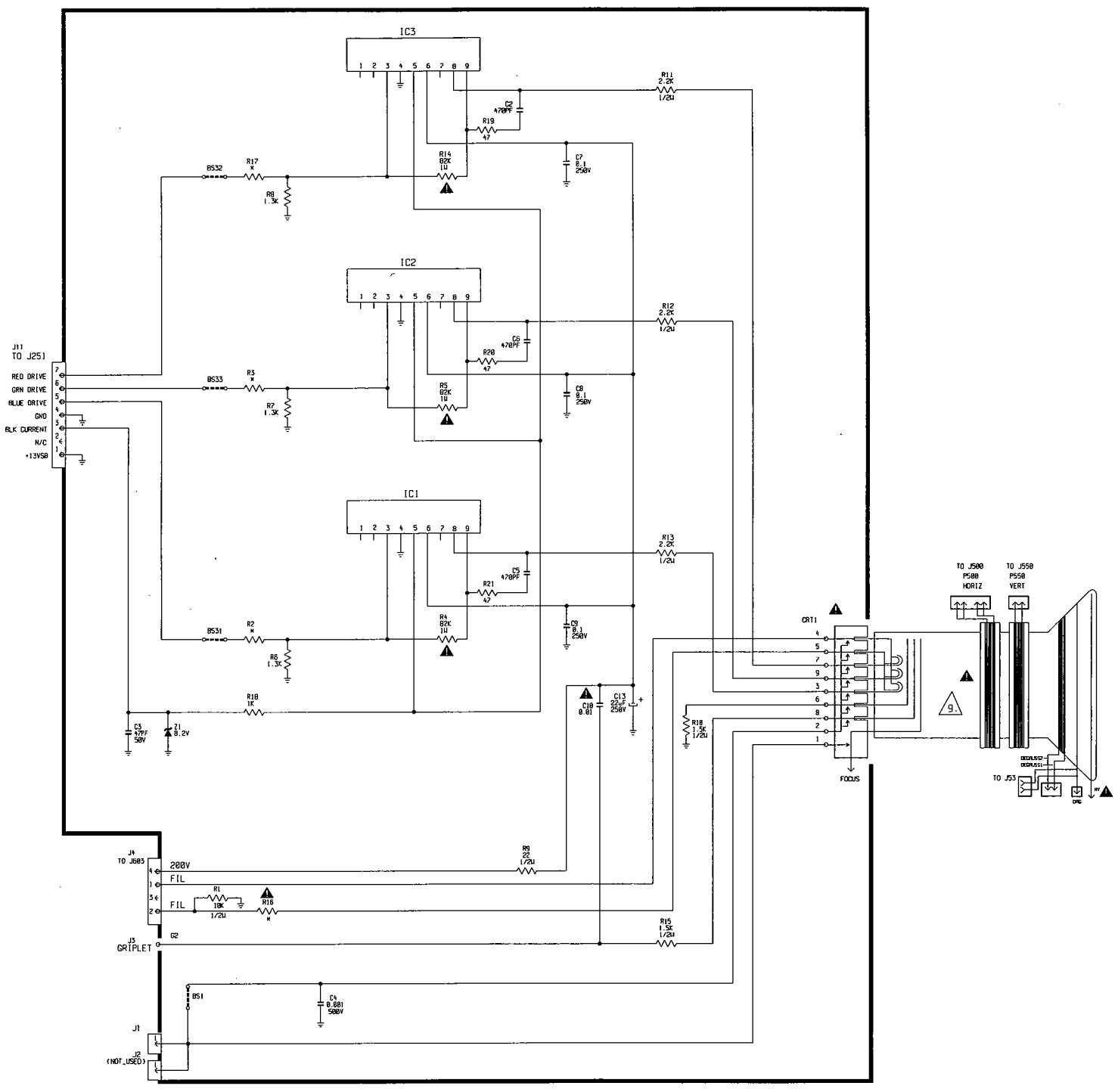


## B8 MAIN CHASSIS P.C. BOARD (BOTTOM VIEW)

PILOT DIE IS 995 895F060T.SPA



## 00APT186 13", 19", & 20" CRT SCHEMATIC DIAGRAM

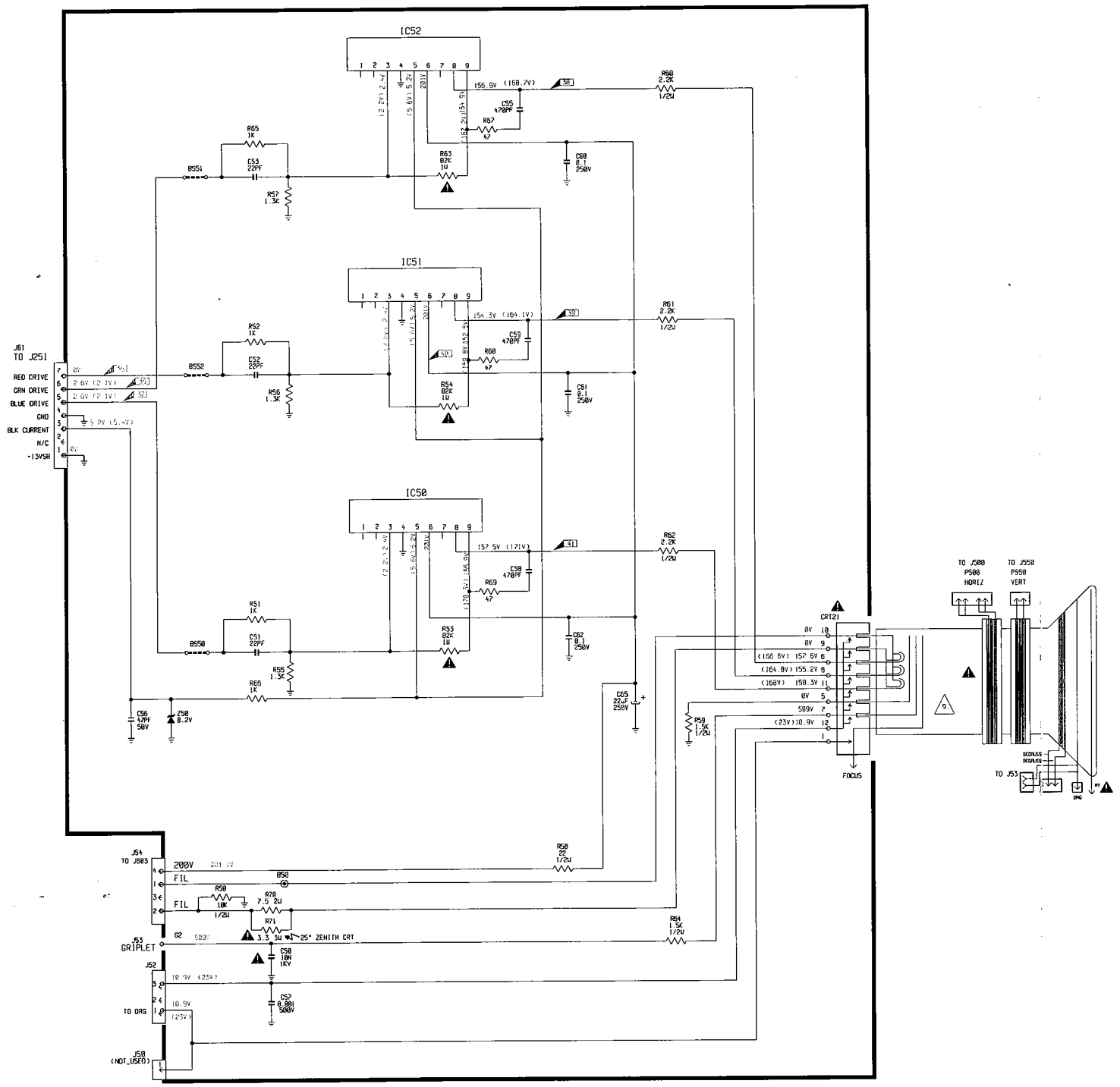



## 00APT186 13", 19", & 20" CRT REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS** | | |
| C2 | 2020 557 90146 | 470pF., 10%, 500V, Ceramic (All 19" Models only) |
| C3 | 2020 552 90598 | 47pF., 5%, 50V, Ceramic (All 19" Models only) |
| C4 | 2020 557 90151 | 1000pF., 10%, 500V, Ceramic (All 19" Models only) |
| C5 | 2020 557 90146 | 470pF., 10%, 500V, Ceramic (All 19" Models only) |
| C6 | 2020 557 90146 | 470pF., 10%, 500V, Ceramic (All 19" Models only) |
| C7 | 2222 368 45104 | 0.1uF., 250V, Polyester (All 19" Models only) |
| C8 | 2222 368 45104 | 0.1uF., 250V, Polyester (All 19" Models only) |
| C9 | 2222 368 45104 | 0.1uF., 250V, Polyester (All 19" Models only) |
| ⚠ C10 | 2222 368 65103 | 0.01uF., 630V, Polyester (All 19" Models only) |
| C13 | 2020 012 93386 | 22uF., 250V, Electrolytic (All 19" Models only) |
| **RESISTORS** | | |
| R1 | 2322 187 53103 | 10k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R2 | 2322 187 53122 | 1.2k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R3 | 2322 187 53122 | 1.2k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R6 | 2322 187 53132 | 1.3k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R7 | 2322 187 53132 | 1.3k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| R8 | 2322 187 53132 | 1.3k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| ⚠ R4 | 0023 033 58235 | 82k, 5%, 1W, Metal Oxide (All 19" Models only) |
| ⚠ R5 | 0023 033 58235 | 82k, 5%, 1W, Metal Oxide (All 19" Models only) |
| R9 | 2322 187 53229 | 22 ohm, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R10 | 2120 103 90047 | 1.5k, 20%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R11 | 2120 103 90048 | 2.2k, 20%, 1/2W, Carbon (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R12 | 2120 103 90048 | 2.2k, 20%, 1/2W, Carbon (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R13 | 2120 103 90048 | 2.2k, 20%, 1/2W, Carbon (All 19", 20" & 25" w/Mono & 25" &27" |
| ⚠ R14 | 0023 033 58235 | 82k, 5%, 1W, Metal Oxide (All 19" Models only) |
| R15 | 2120 103 90047 | 1.5k, 20%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| ⚠ R16 | 2322 187 53228 | 2.2 ohm, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R17 | 2322 187 53122 | 1.2k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R18 | 2322 187 53102 | 1.0k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R19 | 2322 187 53479 | 47 ohm, 5%, 1/2W, Carbon (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R20 | 2322 187 53479 | 47 ohm, 5%, 1/2W, Carbon (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| R21 | 2322 187 53479 | 47 ohm, 5%, 1/2W, Carbon (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| **SEMICONDUCTORS** | | |
| IC1 | 9351 833 80112 | IC TDA6106Q (All 19" Models only) |
| IC2 | 9351 833 80112 | IC TDA6106Q (All 19" Models only) |
| IC3 | 9351 833 80112 | IC TDA6106Q (All 19" Models only) |
| Z1 | 3198 010 38280 | Zener Diode, BZX79-F8V2 (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| **MISCELLANEOUS** | | |
| ⚠ CRT1 | 2422 500 80034 | 9 Pin Board Connector (All 19" Models only) |

## 00APT187 25" & 27" CRT SCHEMATIC DIAGRAM

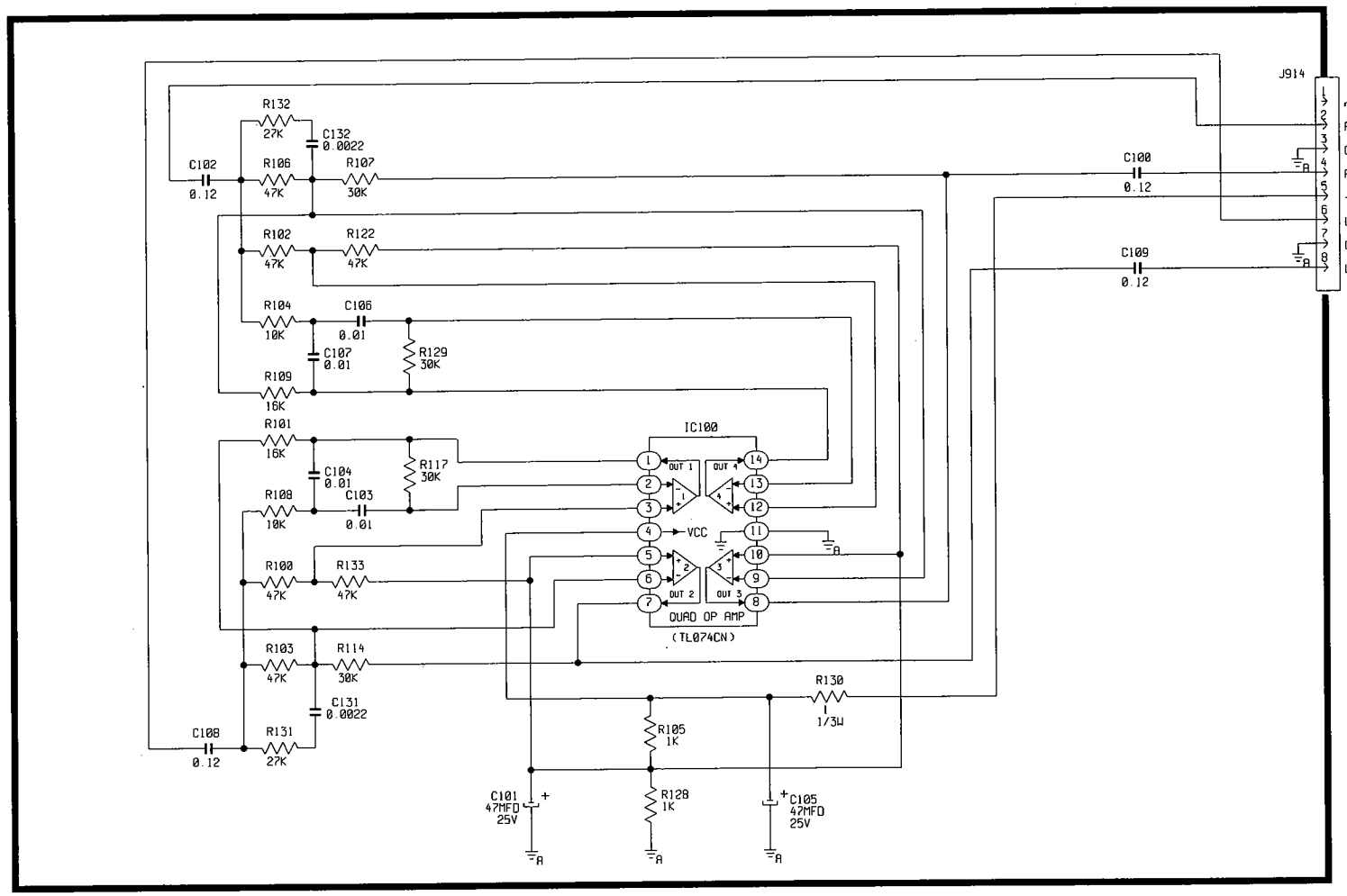



## 00APT187 25" & 27" CRT REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS** | | |
| ⚠ C50 | 2020 558 90433 | 0.01uF., 2kV, Ceramic (All 25" & 27" Models) |
| C60 | 2222 368 45104 | 0.1uF., 250V, Polyester (All 25" & 27" Models) |
| C61 | 2222 368 45104 | 0.1uF., 250V, Polyester (All 25" & 27" Models) |
| C62 | 2222 368 45104 | 0.1uF., 250V, Polyester (All 25" & 27" Models) |
| C51 | 2020 552 90594 | 22pF., 5%, 50V, Ceramic (All 25" & 27" Models) |
| C52 | 2020 552 90594 | 22pF., 5%, 50V, Ceramic (All 25" & 27" Models) |
| C53 | 2020 552 90594 | 22pF., 5%, 50V, Ceramic (All 25" & 27" Models) |
| C55 | 2020 557 90146 | 470pF., 10%, 500V, Ceramic (All 25" & 27" Models) |
| C56 | 2020 552 90598 | 47pF., 5%, 50V, Ceramic (All 25" & 27" Models) |
| C57 | 2020 557 90151 | 1000pF., 10%, 500V, Ceramic (All 25" & 27" Models) |
| C58 | 2020 557 90146 | 470pF., 10%, 500V, Ceramic (All 25" & 27" Models) |
| C59 | 2020 557 90146 | 470pF., 10%, 500V, Ceramic (All 25" & 27" Models) |
| C65 | 2020 012 93386 | 22uF., 250V, Electrolytic (All 25" & 27" Models) |
| **RESISTORS** | | |
| R50 | 2322 187 53103 | 10k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R51 | 2322 187 53122 | 1.2k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R52 | 2322 187 53122 | 1.2k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| ⚠ R53 | 0023 033 58235 | 82k, 5%, 1W, Metal Oxide (All 25" & 27" Models) |
| ⚠ R54 | 0023 033 58235 | 82k, 5%, 1W, Metal Oxide (All 25" & 27" Models) |
| R58 | 2322 187 53229 | 22 ohm, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R60 | 2120 103 90048 | 2.2k, 20%, 1/2W, Carbon (25" & 27" Models Only) |

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R61 | 2120 103 90048 | 2.2k, 20%, 1/2W, Carbon (25" & 27" Models Only) |
| R62 | 2120 103 90048 | 2.2k, 20%, 1/2W, Carbon (25" & 27" Models Only) |
| R65 | 2322 187 53122 | 1.2k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R66 | 2322 187 53102 | 1.0k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R55 | 2322 187 53132 | 1.3k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R56 | 2322 187 53132 | 1.3k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R57 | 2322 187 53132 | 1.3k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R59 | 2120 103 90047 | 1.5k, 20%, 1/2W, Metal Film (25" & 27" Models Only) |
| ⚠ R63 | 0023 033 58235 | 82k, 5%, 1W, Metal Oxide (All 25" & 27" Models) |
| R64 | 2120 103 90047 | 1.5k, 20%, 1/2W, Metal Film (25" & 27" Models Only) |
| R67 | 2322 187 53479 | 47 ohm, 5%, 1/2W, Carbon (25" & 27" Models Only) |
| R68 | 2322 187 53479 | 47 ohm, 5%, 1/2W, Carbon (25" & 27" Models Only) |
| R69 | 2322 187 53479 | 47 ohm, 5%, 1/2W, Carbon (25" & 27" Models Only) |
| R70 | 4835 116 67201 | 7.5 ohm, 5%, 2W, Metal Film (All 25" & 27" Models) |
| **SEMICONDUCTORS** | | |
| IC50 | 9351 833 80112 | IC TDA6106Q (All 25" & 27" Models w/DBX Stereo) |
| IC51 | 9351 833 80112 | IC TDA6106Q (All 25" & 27" Models) |
| IC52 | 9351 833 80112 | IC TDA6106Q (All 25" & 27" Models) |
| Z50 | 3198 010 38280 | Zener Diode, BZX79-F8V2 (25" & 27" Models Only) |
| **MISCELLANEOUS** | | |
| J52 | 0018 222 20203 | 3 Pin Connector (All 25" & 27" Models) |
| ⚠ CRT21 | 2422 500 80037 | 10 Pin Board Connector (All 25" & 27" Models) |

## 00A10671 KEYBOARD/SOUND SHAPER SCHEMATIC DIAGRAM

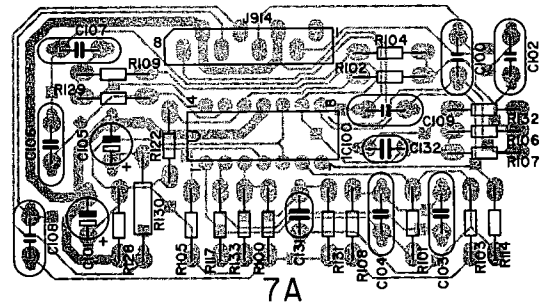



## KEYBOARD/SOUND SHAPER REPLACEMENT PARTS LIST
## 00A10671

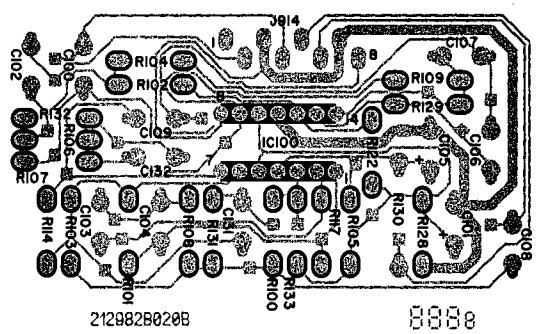
| Ref. | Part No. | Description |
|---|---|---|
| **CAPACITORS** | | |
| C100 | 4835 121 47149 | 0.12uF., 10%, 63V, Polyester |
| C101 | 4835 124 47526 | 47uF., 25V, Electrolytic |
| C102 | 4835 121 47149 | 0.12uF., 10%, 63V, Polyester |
| C103 | 4835 122 47098 | 0.01uF., 10%, 50V, Ceramic |
| C104 | 4835 122 47098 | 0.01uF., 10%, 50V, Ceramic |
| C105 | 4835 124 47526 | 47uF., 25V, Electrolytic |
| C106 | 4835 122 47098 | 0.01uF., 10%, 50V, Ceramic |
| C107 | 4835 122 47098 | 0.01uF., 10%, 50V, Ceramic |
| C108 | 4835 121 47149 | 0.12uF., 10%, 63V, Polyester |
| C109 | 4835 121 47149 | 0.12uF., 10%, 63V, Polyester |
| C131 | 4835 122 47007 | 2200pF., 10%, 50V, Ceramic |
| C132 | 4835 122 47007 | 2200pF., 10%, 50V, Ceramic |
| **RESISTORS** | | |
| R100 | 4835 116 57428 | 47k, 5%, 1/4W, Metal Film |
| R101 | 4835 116 57492 | 16k, 5%, 1/4W, Metal Film |
| R102 | 4835 116 57428 | 47k, 5%, 1/4W, Metal Film |
| R103 | 4835 116 57428 | 47k, 5%, 1/4W, Metal Film |
| R104 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |

| Ref. | Part No. | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R105 | 4835 116 57319 | 1k, 5%, 1/4W, Metal Film |
| R106 | 4835 116 57428 | 47k, 5%, 1/4W, Metal Film |
| R107 | 4835 116 57494 | 30k, 5%, 1/4W, Metal Film |
| R108 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |
| R109 | 4835 116 57492 | 16k, 5%, 1/4W, Metal Film |
| R114 | 4835 116 57494 | 30k, 5%, 1/4W, Metal Film |
| R117 | 4835 116 57494 | 30k, 5%, 1/4W, Metal Film |
| R122 | 4835 116 57428 | 47k, 5%, 1/4W, Metal Film |
| R128 | 4835 116 57319 | 1k, 5%, 1/4W, Metal Film |
| R129 | 4835 116 57494 | 30k, 5%, 1/4W, Metal Film |
| R130 | 4822 111 30483 | 1 ohm, 5%, 1/3W, Metal Film |
| R131 | 4835 116 57416 | 27k, 5%, 1/4W, Metal Film |
| R132 | 4835 116 57416 | 27k, 5%, 1/4W, Metal Film |
| R133 | 4835 116 57428 | 47k, 5%, 1/4W, Metal Film |
| **MISCELLANEOUS** | | |
| IC100 | 4835 209 17032 | IC, 6124800001 |
| J914 | 2422 025 14675 | 8 Pin Board Connector |

## 00A10671 KEYBOARD/SOUND SHAPER P.C. BOARD (TOP VIEW)




## 00A10671 KEYBOARD/SOUND SHAPER P.C. BOARD (BOTTOM VIEW)



**To order parts call the TOLL FREE Philips Sales Center number:**
**(In U.S.A.) 1-800-851-8885**
**(In Canada) 1-800-363-PART • 1-800-663-7178 (Fax)**

## WARNING

Critical components having special safety characteristics are identified with a ▲ by the Ref. No. in the parts list and enclosed within a broken line * (where several critical components are grouped in one area) along with the safety symbol ▲ on the schematics or exploded views.

Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from Philips Consumer Electronics Company. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

* Broken Line: — — — — — — — —

Note: Part numbers beginning with "00" indicates a not normally stocked item.
• Indicates an SMD "Chip" componet.
LCS= Low Cost Stereo

**TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.**

## B8 CHASSIS REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS** | | |
| C208 | 4835 124 47503 | 22uF., 50V, 20%, Electrolytic |
| C222 | 4835 122 87415 | 4700pF., 10%, 50V, Carbon (All 19", 25", & 27" Models w/DBX, LCS, & Mono) • |
| C222 | 4835 122 87017 | 47pF., 5%, 50V, Carbon (All 25" & 27" Models w/DBM Stereo) • |
| C222 | 4835 122 87012 | 100pF., 5%, 50V, Carbon (All 25" & 27" Models w/LC Stereo) • |
| C223 | 4835 122 87287 | 330pF., 5%, 50V, Carbon (All 19", 20", 25" & 27" Models) • |
| C224 | 4835 121 47406 | 1.0uF., 20%, 50V, Electrolytic (All Models Used w/Black Stretch) |
| C225 | 4835 121 47222 | 0.470uF.,100V, Polyester |
| C226 | 4822 121 41608 | 0.1uF., 100V, Polyester |
| C228 | 4835 121 47406 | 1uF, 50V, 20%, Electrolytic |
| C229 | 4835 121 47602 | 0.1uF., 63V, Polyester |
| C230 | 4835 122 87294 | 3300pF, 50V, 10%, Ceramic • |
| C231 | 4835 122 87415 | 4700pF, 50V, 10%, Ceramic • |
| C232 | 4835 121 47406 | 1uF, 50V, 20%, Electrolytic |
| C233 | 4835 122 87544 | 2200pF 50V, 10%, Ceramic • |
| C236 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C237 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C238 | 4835 122 87012 | 100pF, 50V, 5%, Ceramic • |
| C239 | 4835 122 87012 | 100pF, 50V, 5%, Ceramic • |
| C244 | 4835 122 87061 | 100pF, 50V, 10%, Ceramic • |
| C245 | 4835 124 47502 | 2.2uF.,50V, 20%, Electrolytic |
| C246 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C247 | 4835 122 47004 | 100pF., 10%, 50V, Ceramic (19" Pro Basic & 20", 25", 27" Card & Card Ready Models) |
| C248 | 4835 121 47602 | 0.1uF., 63V, Polyester (19", 20", 25", & 27" Models w/Jack panels) |
| C249 | 4835 121 47602 | 0.1uF., 63V, Electrolytic |
| C250 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C251 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C252 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C253 | 4835 124 47503 | 22uF., 50V, 20%, Electrolytic |
| C254 | 4835 122 87023 | 100pF., 50V, 10%, Ceramic • |
| C255 | 4835 124 47499 | 10uF., 50V, 20%, Electrolytic |
| C256 | 4835 122 47607 | 27pF., 50V, 5%, Ceramic |
| C257 | 4835 122 47607 | 27pF., 50V, 5%, Ceramic |
| C258 | 4835 122 47607 | 27pF., 50V, 5%, Ceramic |
| C260 | 4835 124 47704 | 100uF., 10V, Electrolytic |
| **CAPACITORS (continued)** | | |
| C261 | 4835 122 87538 | 2200pF 50V, 10%, Ceramic • |
| C262 | 4835 122 87024 | 1000pF 50V, 10%, Ceramic • |
| C264 | 4835 122 87592 | 15pF., 50V, 5%, Ceramic • |
| C266 | 4835 122 87538 | 2200pF., 50V, 10%, Ceramic • |
| C267 | 4835 121 47387 | 470uF., 16V, Electrolytic |
| C268 | 4835 122 87061 | 0.1uF., 50V, 10%, Ceramic • |
| C274 | 4835 122 47612 | 82pF., 50V, 5%, Ceramic |
| C275 | 4835 121 47602 | 0.1uF., 63V, Polyester (19" Pro Basic & 20", 25", 27" Card & Card Ready Models) |
| C280 | 4835 122 87503 | 4700pF., 50V, 10%, Ceramic • |
| C291 | 4835 124 47703 | 220uF., 50V, Electrolytic |
| C293 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C294 | 4835 124 47704 | 100uF., 10V, Electrolytic |
| C307 | 4835 122 87503 | 4700pF., 50V, 10%, Ceramic • |
| C310 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic |
| C311 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic |
| C314 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C315 | 4835 122 87538 | 0.022uF.,50V, 10%, Ceramic • |
| C316 | 4835 124 47707 | 22uF., 25V, 20%, Electrolytic |
| C317 | 4835 122 87023 | 1000pF., 50V, 10%, Ceramic • |
| C318 | 4835 122 87023 | 1000pF., 50V, 10%, Ceramic • |
| C320 | 4835 122 87592 | 15pF., 5%, 50V, Carbon (Used in Non-Commerical Models)• |
| C321 | 4835 122 87024 | 0.01pF., 50V, 10%, Ceramic • |
| C322 | 4835 122 87592 | 15pF., 5%, 50V, Carbon (Used in Non-Commerical Models)• |
| C323 | 4835 122 87012 | 100pF., 50V, 5%, Ceramic • |
| C325 | 4835 122 87024 | 0.01pF., 50V, 10%, Ceramic • |
| C337 | 4835 121 47406 | 1.0uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Models w/Smart Sound) |
| C338 | 4835 122 47616 | 0.01pF., 50V, +80%, -20%, Ceramic |
| C339 | 4835 122 87012 | 100pF., 50V, 5%, Ceramic • |
| C340 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic • |
| C341 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic • |
| C342 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic • |
| C343 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic • |
| C344 | 4835 124 47506 | 4.7uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Models w/LCS |
| C350 | 4835 124 47567 | 47uF., 16V, 20%, Electrolytic |

## B8 CHASSIS REPLACEMENT PARTS LIST (continued)

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS (continued)** | | |
| C351 | 4835 121 47406 | 1.0uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Models w/Smart Sound |
| C357 | 4835 122 87016 | 39pF., 5%, 50V, Carbon (Used in Commerical Models) • |
| C358 | 4835 122 87414 | 33pF., 50V, 5%, Ceramic (Used in Commerical Models) • |
| C375 | 4835 124 47502 | 2.2uF, 50V, 20%, Electrolytic |
| C376 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (Used in Commerical Models) • |
| C377 | 4835 122 87452 | 0.033uF., 10%, 50V, Carbon (Used in Non-Commerical Models) • |
| C381 | 4835 122 87024 | 0.01pF., 50V, 10%, Ceramic • |
| C383 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C384 | 4835 122 47614 | 470pF., 50V, 10%, Ceramic |
| C390 | 4835 122 87012 | 100pF., 5%, 50V, Carbon (All 25" & 27" Commercial Models w/Smart port) • |
| C391 | 4835 122 87012 | 100pF., 5%, 50V, Carbon (All 25" & 27" Commercial Models w/Smart port) • |
| C392 | 4835 122 87012 | 100pF., 5%, 50V, Carbon (All 25" & 27" Commercial Models w/Smart port) • |
| ▲ C400 | 4835 121 47597 | 0.220uF., 250V, Mylar |
| C401 | 4835 122 47619 | 2200pF., 250VAC, Ceramic (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| C401 | 4835 122 97023 | 4700pF., 250VAC, Ceramic (All 19", 20", 25", & 27" & All Latam Models w/out AMV) |
| C405 | 4835 124 47717 | 470uF., 400V, Electrolytic (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| C405 | 4835 124 47674 | 680uF., 200V, Electrolytic (All 25", & 27" Commercial/Latam Models w/out AMV) |
| C405 | 4835 124 47064 | 680uF., 200V, Electrolytic (All 19" & 20" Latam Models w/out AMV) |
| C407 | 4835 121 47203 | 0.015uF., 400V, Polyester |
| C408 | 4835 121 47001 | 0.120uF., 63V, Polyester |
| C409 | 4835 121 47203 | 0.015uF., 400V, Polyester |
| C410 | 4835 124 47708 | 47uF., 25V, 20%, Electrolytic |
| C411 | 4835 122 87544 | 2200pF., 50V, 10%, Ceramic • |
| C412 | 4835 124 47499 | 10uF., 50V, 20%, Electrolytic |
| C413 | 4835 122 87544 | 2200pF., 50V, 10%, Ceramic • |
| C414 | 4835 122 47614 | 470pF., 50V, 10%, Ceramic |
| C415 | 4835 122 47373 | 1000pF., 1KV, 10%, Ceramic |
| C416 | 4835 122 87375 | 0.1uF, 50V, Ceramic • |
| C418 | 4835 122 47384 | 1000pF, 500V, 10%, Ceramic |
| C419 | 4835 124 47699 | 1000uF., 16V, Electrolytic |
| C423 | 4835 122 47373 | 1000uF., 1KV, 10%, Ceramic |
| C426 | 4835 122 47618 | 4700pF., 20%, 125V, Ceramic (All Commercial models w/Smart Port) |
| C427 | 4835 122 47384 | 1000uF., 500V 10%, Ceramic |
| C430 | 4835 122 47633 | 680pF., 1KV, 10%, Ceramic |
| C431 | 4835 124 47038 | 100uF., 200V, Electrolytic |
| C433 | 4835 122 47373 | 1000pF., 1KV, 10%, Ceramic |
| C435 | 4835 122 47459 | 470pF., 1KV, 10%, Ceramic |
| C437 | 4835 122 47459 | 470pF., 1KV, 10%, Ceramic |
| C441 | 4835 122 87024 | 0.010uF , 50V, 10%, Ceramic • |
| C442 | 4835 122 47623 | 3900pF., 500V, 10%, Ceramic |
| C443 | 4835 124 47583 | 1000uF., 25V, Electrolytic |
| C445 | 4835 122 47384 | 1000uF., 500V 10%, Ceramic |
| C447 | 4835 124 47699 | 1000uF., 16V, Electrolytic |
| C448 | 4835 122 47623 | 3900pF., 500V, 10%, Ceramic |
| C450 | 4835 124 47593 | 2200uF., 25V, Electrolytic |
| C451 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C453 | 4835 121 47001 | 0.120uF., 63V, Polyester |
| C457 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C460 | 4835 122 47384 | 1000uF., 500V, 10%, Ceramic |
| C461 | 4835 124 47536 | 1uF., 250V, Electrolytic |
| C462 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C463 | 4835 121 47278 | 0.100uF., 250V, Electrolytic |
| ▲ C498 | 4835 122 97023 | 4700pF., 250V, Ceramic |
| C501 | 4835 122 47616 | 0.010uF., 50V, +80%, -20%, Ceramic |
| C502 | 4835 122 47211 | 470pF., 500V, 10%, Ceramic |
| C503 | 4835 122 47384 | 1000pF., 500V, 10%, Ceramic |
| C504 | 4835 121 47278 | 0.100uF., 250V, Electrolytic |
| ▲ C505 | 4835 121 47611 | 0.010uF.,1.6kV, Polypropylene (All 25" & 27" Models) |
| ▲ C505 | 4835 121 47613 | 4700pF., 1.6kV, Polypropylene (19", 20", 25", 27" Commerical Models w/ Smart Port) |
| ▲ C505 | 4835 121 47619 | 3900pF., 5%, 2kV, Polypropylene (19" Commerical & LATAM w/ Toshiba CRT) |
| ▲ C506 | 4835 122 47638 | 470pF., 10%, 2kV, Ceramic (19" Commerical & LATAM w/ Toshiba CRT) |
| ▲ C506 | 4835 122 47075 | 270pF., 10%, 2kV, Ceramic (19" Commerical w/ Toshiba CRT) |
| ▲ C506 | 4835 122 47637 | 330pF., 10%, 2kV, Ceramic (20" Commerical w/ Toshiba CRT) |
| ▲ C506 | 4835 122 47584 | 680pF., 10%, 2kV, Ceramic (All 20" Latam & all 25" Models) |
| ▲ C506 | 4835 122 47639 | 820pF., 10%, 2kV, Ceramic (All 27" Models) |
| C507 | 4835 121 47618 | 0.270uF., 250V, Polypropylene (All 20" Latam Models) |
| C507 | 4835 121 47606 | 0.360uF., 250V,.Polypropylene (All 20" Commercial models w/out Channel 1) |
| C507 | 4835 121 47607 | 0.430uF., 250V, Polypropylene (All 27" Models & 20" Latam Models) |
| C507 | 4835 121 47608 | 0.470uF., 250V, Polypropylene (All 25" Models w/out Smart Port) |
| C508 | 4835 122 47409 | 1500pF., 10%, 500V, Ceramic (All 20", 25", & 27" Models) |
| C511 | 4835 122 47631 | 100pF., 2KV, 10%, Ceramic |
| C512 | 4835 124 47606 | 15uF., 50V, 20%, Electrolytic |
| C513 | 4835 124 47606 | 15uF., 50V, 20%, Electrolytic |
| C514 | 4835 124 47606 | 15uF., 50V, 20%, Electrolytic |
| C520 | 4835 121 47406 | 1uF., 50V, 20%, Electrolytic |
| C521 | 4835 122 87012 | 100pF., 50V, 5%, Ceramic• |
| C530 | 4835 124 47499 | 10uF., 50V, 20%, Electrolytic |
| C550 | 4835 121 47602 | 0.100uF., 63V, Electrolytic |
| C551 | 4835 121 47603 | 0.220uF., 63V, Electrolytic |
| C552 | 4835 122 87376 | 220pF., 50V, 5%, Ceramic• |
| C553 | 4835 122 47211 | 470pF., 500V, 10%, Ceramic |
| C554 | 4835 122 47211 | 470pF., 500V, 10%, Ceramic |
| C556 | 4835 121 47602 | 0.100uF., 63V, Polyester |
| C557 | 4835 124 47563 | 100uF., 50V, Electrolytic |
| C559 | 4835 122 87023 | 1000pF., 50V, 10%, Ceramic• |
| C560 | 4835 122 87023 | 1000pF., 50V, 10%, Ceramic• |
| C568 | 4835 124 47137 | 47uF., 250V, Electrolytic |
| C571 | 4835 124 47499 | 10uF., 50V, 20%, Electrolytic |
| C573 | 4835 121 47601 | 047uF., 250V, Polyester |
| C700 | 4835 124 47501 | 100uF., 25V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C701 | 4835 122 87415 | 4700pF., 10%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C702 | 4835 121 47603 | 0.22uF., 63V, Polyester (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C703 | 4835 121 47406 | 1.0uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C704 | 4835 124 47708 | 47uF., 20%, 25V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |

# B8 CHASSIS REPLACEMENT PARTS LIST (continued)

| Ref. | Part Number | Description |
|---|---|---|
| CAPACITORS (continued) | | |
| C705 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C706 | 4835 122 87538 | 0.022uF., 10%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C707 | 4835 121 47406 | 1.0uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C708 | 4835 121 47602 | 0.1uF., 63V, Polyester (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C709 | 4835 121 47406 | 1.0uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C710 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C711 | 4835 122 87502 | 2700pF., 10%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C712 | 4835 121 47602 | 0.1uF., 63V, Polyester (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C713 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C714 | 4835 124 47502 | 2.2uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C715 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C716 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C718 | 4835 122 87012 | 100pF., 5%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C719 | 4835 122 87012 | 100pF., 5%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C720 | 4835 122 87023 | 100pF., 10%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| C721 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| C722 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Models w/LC S) |
| C723 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Models w/LCS) |
| C724 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Models w/LCS) |
| C725 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 25" & 27" Models & Commercial Models w/LCS) |
| C726 | 4835 122 87412 | 10pF., 0.5%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| C727 | 4835 122 87412 | 10pF., 0.5%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| C728 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| C729 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| C730 | 4835 124 47708 | 47uF., 20%, 25V, Electrolytic (All 19", 25", & 27" Models w/LCS) |
| C731 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (All 25" & 27" Models w/LCS) • |
| C732 | 4835 124 47708 | 47uF., 20%, 25V, Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C733 | 4835 124 47708 | 47uF., 20%, 25V, Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C734 | 4835 124 47501 | 100uF., 25V. Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C735 | 4835 124 47708 | 47uF., 20%, 25V, Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C736 | 4835 122 8708 | 0.22uF., 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS & AVL)• |
| C737 | 4835 122 8708 | 0.22uF., 50V, Carbon (All 25" & 27" Models & Latam Models w/LC S & AVL) • |
| C738 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C739 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C740 | 4835 124 47708 | 47uF., 20%, 25V, Electrolytic (All 25" & 27" Models and 19" Commercial w/LCS) |
| C741 | 4835 122 87023 | 1000pF., 10%, 50V, Carbon (All 25" & 27" Models & Latam Models w/LCS &b AVL) • |
| C743 | 4835 121 47586 | 0.027uF., 10%, 50V, Electrolytic (All 19", 25", & 27" Models w/Smart Sound |
| C744 | 4835 122 87544 | 2200pF., 50V, 10%, Ceramic (All 19", 20", 25", & 27" Latam /Comm. models w/Smart Sound) • |
| C745 | 4835 121 47222 | 0.47uF., 100V, Polyester (All 19", 20", 25", & 27" Latam /Comm. models w/Smart Sound) |
| C746 | 4835 122 87544 | 2200pF., 50V, 10%, Ceramic (All Commercial & Latam Models) • |
| C747 | 4835 121 47587 | 0.033uF., 10%, 50V, Electrolytic (All 19", 25", & 27" Models w/Smart Sound |
| C748 | 4835 122 87544 | 2200pF., 50V, 10%, Ceramic • (All 25" & 27" Models w/LCS) |
| C770 | 4835 124 47583 | 1000uF., 25V, Electrolytic |
| C772 | 4835 124 47499 | 10uF., 50V, 20%, Electrolytic |
| C773 | 4835 124 47503 | 22uF., 20%, 50V, Electrolytic (All 25" & 27" Models & Commercial Models w/LCS) |
| C780 | 4835 121 47603 | 0.22uF., 63V, Polyester (All 19", 25", & 27" Commerical & Latam Models w/LCS) |
| C781 | 4835 121 47603 | 0.22pF., 63V, Polyester (All 25" & 27" Models & Commercial Models w/LCS) |
| C784 | 4835 121 47001 | 0.12uF., 63V, Polyester (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| C785 | 4835 121 47001 | 0.12uF., 63V, Polyester (All Commercial Models) |
| C790 | 4835 122 87287 | 330pF., 5%, 50V, Carbon (All 25" & 27" Models w/LCS) |
| C791 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 25" & 27" Models & Commercial Models w/LCS) |
| C792 | 4835 122 87287 | 330pF., 5%, 50V, Carbon (All 25" & 27" Models w/S) |
| C793 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (All 19", 25", & 27" Comm/Latam Models w/S) |
| C794 | 4835 122 87294 | 3300pF., 10%, 50v, Carbon (All 25" & 27" Models w/DBM S) • |
| C796 | 4835 122 87294 | 3300pF., 10%, 50V, Carbon (All 25" & 27" Models w/DBM S) • |

# B8 CHASSIS REPLACEMENT PARTS LIST (continued)

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS** | | |
| R218 | 4835 111 37371 | 220 ohm, 5%, 1/10W, Metal Film • |
| R219 | 4835 111 37458 | 15k, 5%, 1/10W, Metal Film • |
| R222 | 4835 116 57698 | 15k, 5%, 1/2W, Metal Film |
| R224 | 4835 116 57734 | 620k, 5%, 1/2W, Metal Film (3W DBX Models) |
| R225 | 4835 111 27041 | 39.0k, 1%, 1/10W, Metal Film • |
| R226 | 4822 052 10228 | 2.2 ohm, 5%, 1/3W, Metal Film |
| R229 | 4835 111 37277 | 82k, 5%, 1/10W, Metal Film • |
| R230 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R231 | 4835 111 37022 | 1.0k, 5%, 1/8W, Metal Film • |
| R232 | 4835 111 37458 | 15k, 5%, 1/10W, Metal Film • |
| R233 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R234 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R235 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film • |
| R236 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film |
| R240 | 4835 116 57653 | 2.2 ohm, 5%, 1/2W, Metal Film |
| R243 | 4835 111 37276 | 75 ohm, 5%, 1/10W, Metal Film (All 19", 25", & 27" Models w/DBX, LCS, & Mono) • |
| R244 | 4835 116 57733 | 620 ohm, 5%, 1/2W, Metal Film |
| R245 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R246 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R247 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R248 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R249 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R250 | 4835 111 37022 | 1.0k, 5%, 1/8W, Metal Film • |
| R251 | 4835 111 37058 | 150 ohm, 5%, 1/4W, Metal Film • |
| R252 | 4835 111 37234 | 2.2k, 5%, 1/10W, Metal Film • |
| R253 | 4835 116 57708 | 22 ohm, 5%, 1/2W, Metal Film |
| R255 | 4835 111 37371 | 220 ohm, 5%, 1/10W, Metal Film • |
| R256 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film • |
| R266 | 4822 111 30508 | 10 ohm, 5%, 1/3W, Metal Film |
| R273 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R275 | 4822 111 30508 | 10 ohm, 5%, 1/3W, Metal Film (25" & 27" Card & Card Ready Models) |
| R276 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (25" & 27" Card & Card Ready Models) |
| R277 | 4835 116 57739 | 75 ohm, 5%, 1/2W, Metal Film (25" & 27" Card & Card Ready Models) |
| R280 | 4835 111 37229 | 180 ohm, 5%, 1/10W, Metal Film • |
| R281 | 4835 111 37229 | 180 ohm, 5%, 1/10W, Metal Film • |
| R291 | 4835 116 57698 | 15k, 5%, 1/2W, Metal Film |
| R292 | 4835 116 57698 | 15k, 5%, 1/2W, Metal Film |
| R293 | 4835 116 57097 | 10 ohm, 5%, 1/2W, Metal Film |
| ⚠ R294 | 4835 116 67259 | 39 ohm, 5%, 1W, Metal Oxide |
| R296 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R298 | 4835 111 37408 | 68 ohm, 5%, 1/10W, Metal Film • |
| R301 | 4835 111 37458 | 15k, 5%, 1/10W, Metal Film • |
| R302 | 4835 111 27055 | 75k, 5%, 1/10W, Metal Film • |
| R303 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film • |
| R304 | 4835 111 37269 | 6.2k, 5%, 1/10W, Metal Film (All Non-Commerical Models) • |
| R304 | 4835 111 37376 | 5.6k, 5%, 1/10W, Metal Film (All Commerical Models) • |
| R305 | 4835 111 37132 | 10.0 ohm, 5%, 1/8W, Metal Film • |
| R306 | 4835 111 37374 | 43k, 5%, 1/10W, Metal Film • |
| R307 | 4835 111 37234 | 2.2k, 5%, 1/10W, Metal Film (All Non-Commerical Models) • |
| R307 | 4835 111 37247 | 3.3k, 5%, 1/10W, Metal Film (All Commerical Models) • |
| R308 | 4835 111 27052 | 4.7k, 5%, 1/10W, Metal Film • |
| R309 | 4822 116 53022 | 10.0k, 1%, 1/6W, Metal Film |
| R310 | 4835 111 37247 | 3.3k, 5%, 1/10W, Metal Film (All Non-Commerical Models) • |
| R310 | 4835 111 37234 | 2.2k, 5%, 1/10W, Metal Film (All Commerical Models) • |
| R311 | 4835 111 37443 | 330 ohm, 5%, 1/10W, Metal Film • |
| R312 | 4835 111 37443 | 330 ohm, 5%, 1/10W, Metal Film • |
| R313 | 4835 111 27052 | 4.7k, 5%, 1/10W, Metal Film • |
| R316 | 4835 111 37477 | 56k, 5%, 1/10W, Metal Film • |
| R318 | 4835 116 57713 | 330 ohm, 5%, 1/2W, Metal Film |
| R319 | 4835 116 57724 | 4.7k, 5%, 1/2W, Metal Film |
| R320 | 4835 116 57713 | 330 ohm, 5%, 1/2W, Metal Film |

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R321 | 4835 111 27053 | 510k, 5%, 1/10W, Metal Film (All Non-Commerical Models ) • |
| R321 | 4835 111 27056 | 0 Ohm, Metal Film (All Commerical Models ) • |
| R325 | 4835 111 37432 | 100 ohm, 5%, 1/10W, Metal Film • |
| R326 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R327 | 4835 111 37432 | 100 ohm, 5%, 1/10W, Metal Film • |
| R328 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R330 | 4835 116 57724 | 4.7k, 5%, 1/2W, Metal Film |
| R331 | 4835 111 37376 | 5.6k, 5%, 1/10W, Metal Film • |
| R332 | 4835 111 37376 | 5.6k, 5%, 1/10W, Metal Film • |
| R333 | 4835 111 37376 | 5.6k, 5%, 1/10W, Metal Film • |
| R334 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam /Comm. models w/Smart Sound) |
| R338 | 4835 116 57712 | 27k, 5%, 1/2W, Metal Film |
| R340 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film(All 19", 20", 25" & 27" Models w/LED) |
| R341 | 4835 116 57688 | 1.1k, 5%, 1/2W, Metal Film (All 19", 20", 25" & 27" Models w/LED) |
| R342 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R343 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R344 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| R345 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film • |
| R346 | 4835 116 57725 | 47k, 5%, 1/2W, Metal Film |
| R347 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R348 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film • |
| R349 | 4835 116 57706 | 22k, 5%, 1/2W, Metal Film |
| R350 | 4835 116 57745 | 47 ohm, 5%, 1/3W, Metal Film |
| R351 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/ Jack Panels) |
| R352 | 4835 116 57711 | 2.7k, 5%, 1/2W, Metal Film |
| R353 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R354 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R355 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R357 | 4835 116 57724 | 4.7k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R358 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/ Jack Panels) |
| R359 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| R360 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam /Commerical models w/Smart Sound) |
| R361 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film (All 19", 20", 25", & 27" Latam /Commerical models w/Smart Sound) • |
| R362 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film • |
| R363 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film • |
| R364 | 4835 111 37021 | 100 ohm, 5%, 1/8W, Metal Film • |
| R365 | 4835 111 27052 | 4.7k, 5%, 1/10W, Metal Film • |
| R367 | 4835 111 37437 | 1.5k, 5%, 1/10W, Metal Film • |
| R368 | 4835 111 37466 | 820 ohm, 5%, 1/10W, Metal Film • |
| R369 | 4835 111 37466 | 820 ohm, 5%, 1/10W, Metal Film • |
| R370 | 4835 111 37466 | 820 ohm, 5%, 1/10W, Metal Film • |
| R371 | 4835 111 37234 | 2.2k, 5%, 1/10W, Metal Film • |
| R372 | 4835 111 27054 | 560 ohm, 5%, 1/10W, Metal Film • |
| R373 | 4835 111 27054 | 560 ohm, 5%, 1/10W, Metal Film • |
| R374 | 4835 111 27054 | 560 ohm, 5%, 1/10W, Metal Film • |
| R375 | 4835 111 37437 | 1.5k, 5%, 1/10W, Metal Film (All Models w/4100 & 4700 Micro) • |
| R377 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film • |
| R378 | 4835 111 37466 | 820 ohm, 5%, 1/10W, Metal Film • |
| R379 | 4835 111 37217 | 1.0k, 5%, 1/10W, Metal Film (All Non-Commerical Models) • |
| R380 | 4835 111 37443 | 330 ohm, 5%, 1/10W, Metal Film (All Non-Commerical Models) • |

# B8 CHASSIS REPLACEMENT PARTS LIST (continued)

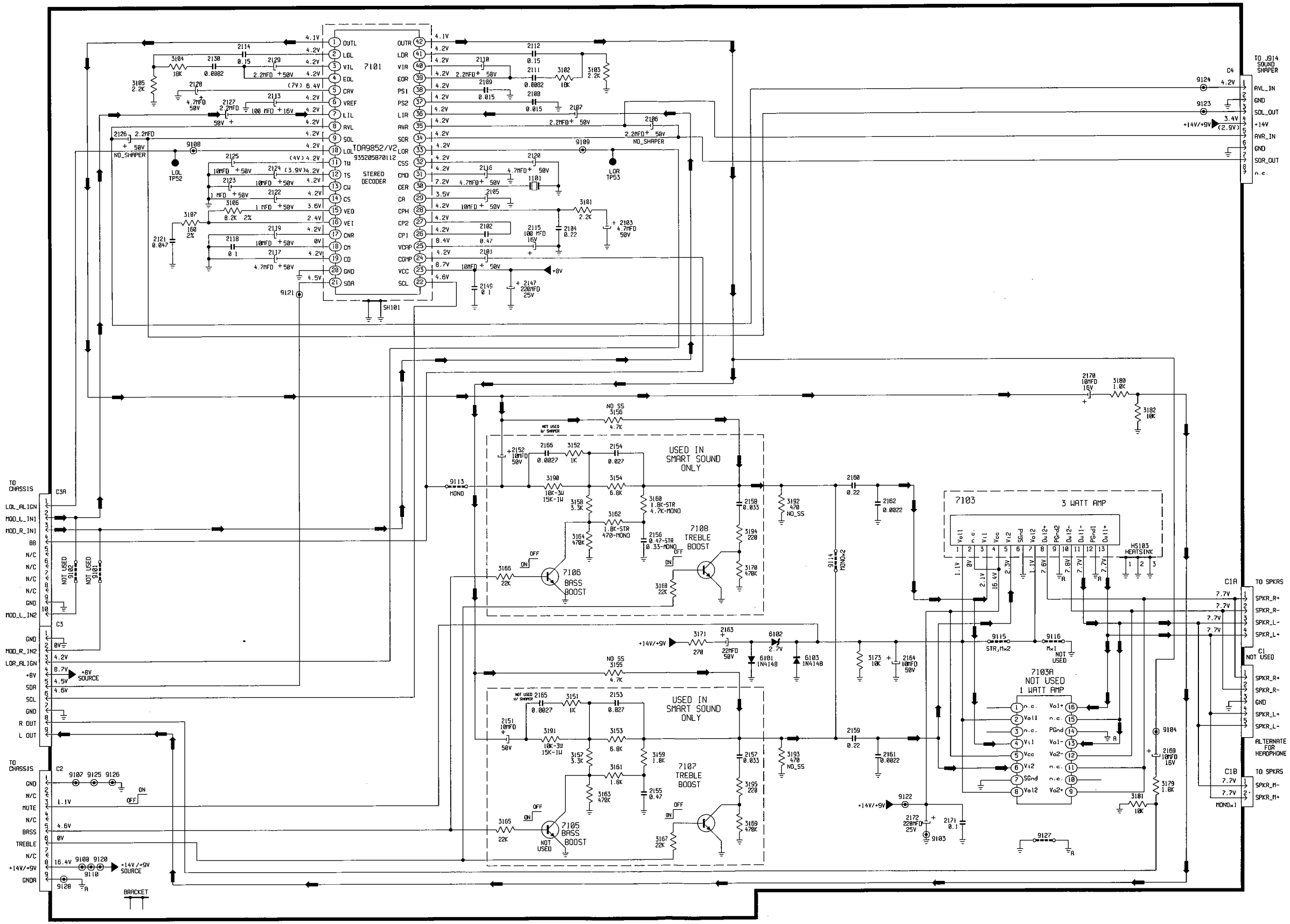
| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R380 | 4835 111 37441 | 22k, 5%, 1/10W, Metal Film (All Commerical Models) • |
| R381 | 4835 110 27012 | 1.0 ohm, 5%, 1/2W, Metal Film |
| R384 | 4835 111 37363 | 10 ohm, 5%, 1/10W, Metal Film • |
| R385 | 4835 111 37363 | 10 ohm, 5%, 1/10W, Metal Film • |
| R386 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film • |
| R387 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film |
| R390 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Commercial Models w/Smart port) |
| R391 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Commercial Models w/Smart port) |
| R392 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Commercial Models w/Smart port) |
| R393 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film (All 25" & 27" Commercial Models w/Smart port) |
| R400 | 4835 116 57009 | 4.7 ohm, 5%, 1/2W, Metal Film |
| ▲ R401 | 4835 116 57009 | 4.7 ohm, 5%, 1/2W, Metal Film |
| R402 | 4835 112 37029 | 1.5 ohm, 5%, 10W, Wire |
| R403 | 4835 112 37029 | 1.5 ohm, 5%, 10W, Wire (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| R404 | 4835 116 47001 | 10 Ohm (All 19", 20", 25", & 27" & All Latam Models w/out AMV) |
| R405 | 4835 116 57703 | 2.0k, 5%, 1/2W, Metal Film |
| ▲ R407 | 4835 116 47015 | 9 ohm .30% (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| R408 | 4835 116 57737 | 68k, 5%, 1/2W, Metal Film |
| R410 | 4835 116 57276 | 2 ohm, 5%, 1/2W, Metal Film |
| R411 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film |
| R412 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film |
| R413 | 4835 116 67131 | 10 ohm, 5%, 1/2W, Metal Film |
| R414 | 4822 116 53028 | 7.5k, 1%, 1/6W, Metal Film |
| R416 | 4835 116 57735 | 680 ohm, 5%, 1/2W, Metal Film |
| R417 | 4835 116 57572 | 0.22 ohm, 5%, 2W, Metal Oxide |
| R418 | 4835 116 67231 | 33k, 5%, 1W, Metal Oxide (All 19", 20", 25", & 27" & All Latam Models w/out AMV) |
| R418 | 4835 116 67231 | 68k, 5%, 1W, Metal Oxide (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| R419 | 4835 116 57731 | 560 ohm, 5%, 1/2W, Metal Film |
| ▲ R420 | 4835 116 57109 | 1.0 ohm, 5%, 1/3W, Metal Film |
| R421 | 4835 103 17001 | 1K |
| R422 | 4835 116 57677 | 23.2k, 1%, 1/6W, Metal Film |
| R423 | 4835 116 67239 | 100 ohm, 5%, 2W, Metal Oxide |
| R424 | 4835 116 67239 | 100 ohm, 5%, 2W, Metal Oxide |
| ▲ R425 | 4835 116 67254 | 0.22 ohm, 5%, 1W, Metal Oxide |
| ▲ R429 | 4835 116 67233 | 82 ohm, 5%, 2W, Metal Oxide |
| ▲ R431 | 4835 116 57573 | 68 ohm, 5%, 2W, Metal Oxide |
| ▲ R436 | 4835 116 67233 | 82 ohm, 5%, 2W, Metal Oxide |
| R442 | 4835 116 67183 | 5.6 ohm, 5%, 1/2W, Metal Film |
| ▲ R444 | 4835 116 67168 | 30 ohm, 5%, 3W, Metal Film (All Models w/2 Channel S) |
| ▲ R444 | 4835 116 67244 | 15 ohm, 5%, 3W, Metal Oxide (All 19", 25", & 27" Comm. & Latam Models w/LCS) |
| ▲ R445 | 4835 116 57109 | 1.0 ohm, 5%, 1/3W, Metal Film |
| ▲ R446 | 4835 116 67235 | 1.0 ohm, 5%, 2W, Metal Oxide (3W DBX Models) |
| R447 | 4835 116 57097 | 10 ohm, 5%, 1/2W, Metal Film |
| R448 | 4835 116 57046 | 9.1 ohm, 5%, 1/2W, Metal Oxide |
| R450 | 4835 116 67252 | 150 ohm, 5%, 1W, Metal Oxide |
| R451 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R452 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R457 | 4835 116 57728 | 510 ohm, 5%, 1/2W, Metal Oxide |
| ▲ R460 | 4822 052 10228 | 2.2 ohm, 5%, 1/3W, Metal Film |
| R461 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R462 | 4835 116 57097 | 10 ohm, 5%, 1/2W, Metal Film |
| R463 | 4835 116 57716 | 330k, 5%, 1/2W, Metal Film |
| R464 | 4835 116 57097 | 10 ohm, 5%, 1/2W, Metal Film |
| R466 | 4835 116 57097 | 10 ohm, 5%, 1/2W, Metal Film |
| ▲ R467 | 4835 116 57573 | 68 ohm, 5%, 2W, Metal Oxide |
| R469 | 4835 116 67131 | 10 ohm, 5%, 1/2W, Metal Film |
| R470 | 4835 116 67131 | 10 ohm, 5%, 1/2W, Metal Film |
| R501 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R502 | 4835 116 57732 | 5.6k, 5%, 1/2W, Metal Film |
| R503 | 4835 116 57729 | 5.1k, 5%, 1/2W, Metal Film |
| R504 | 4835 116 67257 | 2.7k, 5%, 5W, Metal Oxide (All 25" & 27" Models) |
| R504 | 4835 116 67258 | 4.7k, 5%, 5W, Metal Oxide (All 19" Models only) |
| ▲ R507 | 4835 116 57381 | 680 ohm, 5%, 1/2W, Metal Film (All 20", 25", & 27" Models) |
| R508 | 4835 116 57731 | 560 ohm, 5%, 1/2W, Metal Film |
| R509 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film |
| R510 | 4835 116 57568 | 20k, 5%, 1W, Metal Oxide |
| R511 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R512 | 4835 116 57747 | 300k, 5%, 1/2W, Metal Film |
| R513 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film |
| ▲ R515 | 4835 116 57745 | 47 ohm, 5%, 1/3W, Metal Film |
| R520 | 4835 111 37022 | 1.0k, 5%, 1/8W, Metal Film • |
| R521 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film |
| R524 | 4835 116 57725 | 47k, 5%, 1/2W, Metal Film |
| ▲ R530 | 4835 116 57109 | 1.0 ohm, 5%, 1/3W, Metal Film |
| R533 | 4822 116 53022 | 10k, 1%, 1/6W, Metal Film (25" Non-Latam Smart Picture & Smart Port Models) |
| R533 | 4835 116 57673 | 10.5k, 1%, 1/6W, Metal Film (27" Non-Latam Models) |
| R533 | 4835 116 57274 | 9.09k, 1%, 1/6W, Metal Film (19" Non-Card Ready Models, 20" Models plus 25" Latam and 25" Models w/o Jack Panels) |
| R534 | 4835 116 57678 | 3.00k, 1%, 1/6W, Metal Film |
| R538 | 4835 116 57492 | 16k, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R538 | 4835 116 57706 | 22k, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| R539 | 4835 116 57743 | 820k, 5%, 1/2W, Metal Film |
| R541 | 4835 116 57693 | 120k, 5%, 1/2W, Metal Film |
| R542 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R545 | 4835 110 47006 | 2.2k, 5%, 1/2W, Metal Film |
| R546 | 4835 116 57713 | 330 ohm, 5%, 1/2W, Metal Film |
| R547 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R548 | 4835 116 57704 | 20k, 5%, 1/2W, Metal Film |
| R551 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R551 | 4835 116 57741 | 820 ohm, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| R552 | 4835 116 57139 | 0.47 ohm, 5%, 1/2W, Metal Film (25" & 27" Models Only) |
| R552 | 4835 116 57109 | 1 ohm, 5%, 1/2W, Metal Film (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| R553 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R554 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film |
| R555 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film • |
| R556 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film • |
| R557 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R558 | 4835 116 67073 | 1.5 ohm, 5%, 1/2W, Metal Film (All Commerical Models) |
| R564 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R571 | 4835 110 47006 | 2.2k, 5%, 1/2W, Metal Film |
| R573 | 4835 110 47212 | 470 ohm, 20%, 1/2W, Carbon |
| R578 | 4835 116 57712 | 27k, 5%, 1/2W, Metal Film |
| R700 | 4835 116 67086 | 51 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |

# B8 CHASSIS REPLACEMENT PARTS LIST (continued)

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R701 | 4835 116 57732 | 5.6k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R702 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R703 | 4835 116 57698 | 15k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R704 | 4835 116 57697 | 1.5k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R705 | 4835 116 57695 | 13k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R706 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R707 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R708 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R709 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R712 | 4835 116 57706 | 22k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R713 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film (All 25" & 27" Models w/LCS) • |
| R714 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R715 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R716 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R717 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R718 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R720 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R721 | 4835 111 27042 | 1.2k, 5%, 1/10W, Metal Film (All 25" & 27" Models w/LCS) |
| R722 | 4835 111 37123 | 820 ohm, 5%, 1/8W, Metal Film (All 25" & 27" Models w/LCS) |
| R723 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R724 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R725 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R726 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R727 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R728 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R729 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/LCS) |
| R730 | 4835 116 57109 | 1.0 ohm, 5%, 1/3W, Metal Film (All 25" & 27" Models w/LCS) |
| R731 | 4835 111 37407 | 470k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R732 | 4835 111 37407 | 470k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R733 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R734 | 4822 051 10102 | 1.0k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R735 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| R736 | 4835 111 37247 | 3.3k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R737 | 4835 111 37432 | 100 ohm, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R738 | 4835 111 37432 | 100 ohm, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R739 | 4835 116 57706 | 22k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| ⚠ R740 | 4822 111 30508 | 10 ohm, 5%, 1/3W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| R741 | 4835 111 27047 | 2.2k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R742 | 4835 111 37259 | 470 ohm, 5%, 1/10W, Metal Film (All 19", 20", 25", & 27" Latam / Commerical models w/Smart Sound) • |
| R743 | 4835 116 57736 | 6.8k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam / Commerical models w/Smart Sound) |
| R744 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R745 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R746 | 3198 021 90010 | Metal Film ZERO OHM 1206 (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) • |
| R747 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R749 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R751 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R753 | 4835 116 57726 | 470k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R754 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (All 25" % 27" Models w/LCS ) |
| R755 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (25"LCS & 3 Jack Panels, 27" LCS) |
| R755 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film (19" Non-Card Ready, 20" Models, 25"Latam, 25" Commerical w/ Smart Port, 25" Non-Latam w/o Jack Panels & 27" Latam, 27" Commerical Non-Card Ready) |
| R755 | 4835 116 57698 | 15k, 5%, 1/2W, Metal Film (EMB855 Only) |
| R757 | 4835 116 57726 | 470k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R759 | 4835 116 57706 | 22k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |

# 00ASD038/41/44/45/46 STEREO MODULE SCHEMATIC DIAGRAM





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00APT186 13/19/20 CRT Schematic Diagram(s)..... 29
00APT187 25/27 CRT Schematic Diagram(s)..... 30
00A10671 Keyboard/Sound Shaper Schematic Diagram(s)..... 31
00A10602 OCV TV Module Schematic Diagram(s)..... 41
00A10630 Care Interconnect Schematic Diagram(s)..... 43
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00A10664/5 Lodging Smart Port Schematic Diagram(s)..... 45

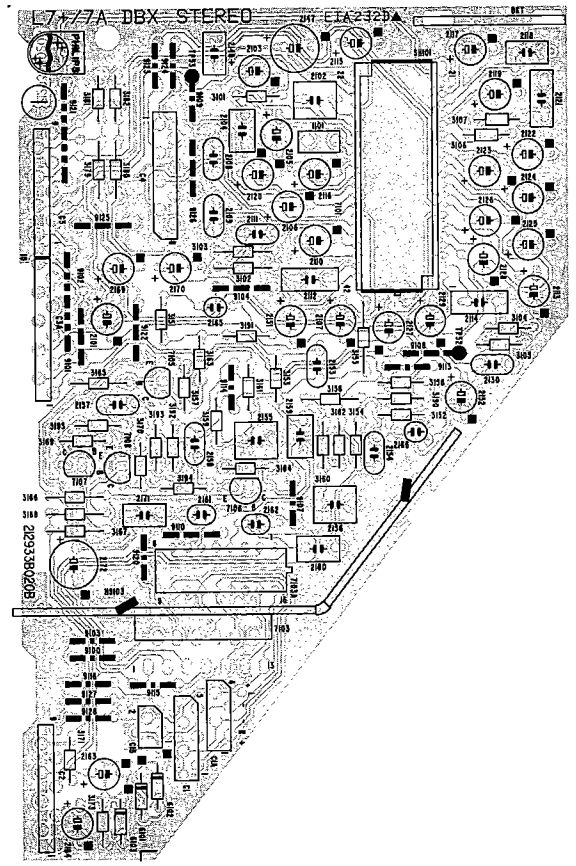
# STEREO MODULE REPLACEMENT PARTS LIST 00ASD038 (4835 219 57636), 00ASD041 (4835 219 57639), 00ASD044 (4835 219 57642) & 00ASD046 (4835 219 57655)

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS** | | |
| 2101 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2102 | 4822 121 42008 | 0.47uF., 63V, Polyester (ASD038, 041, & 046 only) |
| 2103 | 4835 124 47506 | 4.7uF., 20%, 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2104 | 4835 121 47061 | 0.22uF., 63V, Polyester (ASD038, 041, & 046 only) |
| 2105 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2107 | 4835 124 47502 | 2.2uF., 50V, 20%, Electrolytic (ASD038, 041, & 046 only) |
| 2108 | 4835 121 47593 | 0.015uF., 50V, 5%, Polyester (ASD038, 041, & 046 only) |
| 2109 | 4835 121 47593 | 0.015uF., 50V, 5%, Polyester (ASD038, 041, & 046 only) |
| 2110 | 4835 124 47502 | 2.2uF., 50V, 20%, Electrolytic (ASD038, 041, & 046 only) |
| 2111 | 4835 121 47585 | 0.0082uF., 50V, 10%, Polyester (ASD038, 041, & 046 only) |
| 2112 | 4835 121 47599 | 0.150uF., 63V, Polyester (ASD038, 041, & 046 only) |
| 2113 | 4835 124 47706 | 100uF., 16V, Electrolytic (ASD038, 041, & 046 only) |
| 2114 | 4835 121 47599 | 0.150uF., 63V, Polyester (ASD038, 041, & 046 only) |
| 2115 | 4835 124 47706 | 0.100uF., 16V, Electrolytic (ASD038, 041, & 046 only) |
| 2116 | 4835 124 47506 | 4.7uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2117 | 4835 124 47506 | 4.7uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2118 | 4835 121 47602 | 0.100uF., 63V, Polyester (ASD038, 041, & 046 only) |
| 2119 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2120 | 4835 124 47506 | 4.7uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2121 | 4835 121 47005 | 0.047uF., 100V, Polyester (ASD038, 041, & 046 only) |
| 2122 | 4835 121 47406 | 1.0uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2123 | 4835 121 47406 | 1.0uF., 50V, Electrolytic PM20 (ASD038, 041, & 046 only) |
| 2124 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2125 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2127 | 4835 124 47502 | 2.2uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2128 | 4835 124 47506 | 4.7uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2129 | 4835 124 47502 | 2.2uF., 50V, Electrolytic (ASD038, 041, & 046 only) |
| 2130 | 4835 121 47585 | 0.0082uF., 50V, 10%, Polyester (ASD038, 041, & 046 only) |
| 2147 | 4835 124 47557 | 220uF, 25V, Electrolytic (ASD038, 041, & 046 only) |
| 2149 | 4835 121 47602 | 0.100uF., 63V, Polyester (ASD038, 041, & 046 only) |
| 2169 | 4835 124 47716 | 10uF., 16V, 20%, Electrolytic (ASD038, 041, & 046 only) |
| 2170 | 4835 124 47716 | 10uF., 16V, 20%, Electrolytic (ASD038, 041, & 046 only) |
| 2151 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038 & 046 only) |
| 2152 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic (ASD038 & 046 only) |
| 2153 | 4835 121 47595 | 0.027uF., 50V, 5%, Polyester (ASD038 & 046 only) |
| 2155 | 4822 121 42008 | 0.47uF., 63V, Polyester (ASD038 & 046 only) |

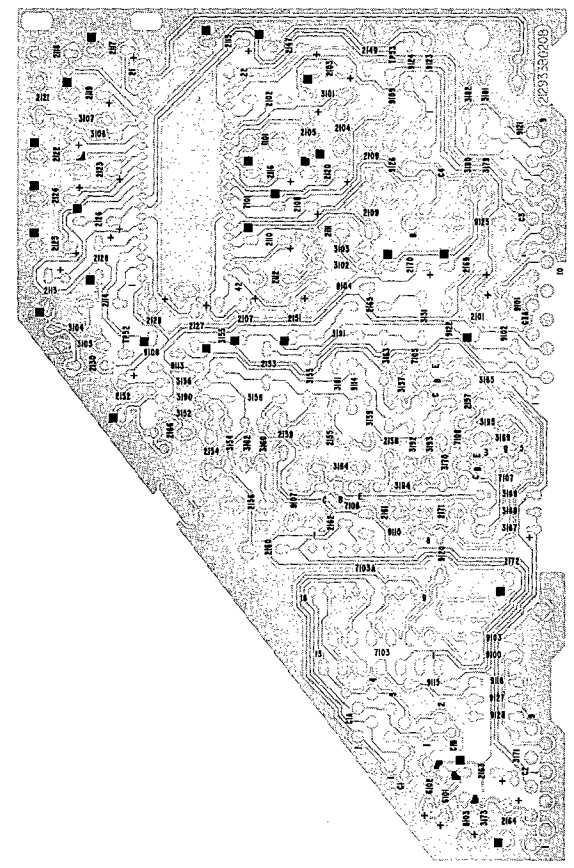
| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS (continued)** | | |
| 2156 | 4822 121 42008 | 0.47uF., 63V, Polyester (ASD038 & 046 only) |
| 2157 | 4835 121 47596 | 0.033uF., 50V, 5%, Polyester (ASD038 & 046 only) |
| 2154 | 4835 121 47595 | 0.027uF., 50V, 5%, Polyester (ASD038, 044 & 046 only) |
| 2158 | 4835 121 47596 | 0.033uF., 50V, 5%, Polyester (ASD038, 044 & 046 only) |
| 2156 | 4835 121 47223 | 0.330uF., 63V, Polyester (ASD044 only) |
| 2159 | 4835 121 47061 | 0.22uF., 63V, Polyester |
| 2160 | 4835 121 47061 | 0.22uF., 63V, Polyester |
| 2161 | 4835 122 47007 | 0.0022uF., 50V, 10%, Ceramic |
| 2162 | 4835 122 47007 | 0.0022uF., 50V, 10%, Ceramic |
| 2163 | 4835 124 47503 | 22uF., 50V, 20%, Electrolytic |
| 2164 | 4835 124 47499 | 10uF., 20%, 50V, Electrolytic |
| 2171 | 4835 121 47602 | 0.100uF., 63V, Polyester |
| 2172 | 4835 124 47557 | 220uF., 25V, Electrolytic |
| 2106 | 4835 124 47502 | 2.2uF., 50V, Electrolytic (ASD038 & 041 only) |
| 2126 | 4835 124 47502 | 2.2uF., 50V, Electrolytic (ASD038 & 041 only) |
| 2165 | 4835 122 37024 | 0.0027uF., 50V, 10%, Ceramic (ASD038 only) |
| 2166 | 4835 122 37024 | 0.0027uF., 50V, 10%, Ceramic (ASD038 & 044 only) |
| **RESISTORS** | | |
| 3171 | 4835 116 57709 | 270 ohm, 5%, Metal Film |
| 3173 | 4835 116 57686 | 10K, 5%, 1/2W, Metal Film |
| 3101 | 4835 110 47006 | 2.2k, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3102 | 4835 110 57187 | 18K, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3103 | 4835 110 47006 | 2.2k, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3104 | 4835 110 57187 | 18K, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3105 | 4835 110 47006 | 2.2k, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3106 | 4835 116 57683 | 8.20k, 1/4W, 1%, Metal Film (ASD038, 041, & 046 only) |
| 3107 | 4835 116 57682 | 160 ohm, 1%, 1/4W, Metal Film (ASD038, 041, & 046 only) |
| 3179 | 4835 116 57685 | 1K, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3180 | 4835 116 57685 | 1K, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3181 | 4835 116 57686 | 10K, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3182 | 4835 116 57686 | 10K, 5%, 1/2W, Metal Film (ASD038, 041, & 046 only) |
| 3151 | 4835 116 57685 | 1K, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3153 | 4835 116 57736 | 6.8k, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3157 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3159 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3160 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3161 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3162 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3163 | 4835 116 57726 | 470K, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3165 | 4835 116 57706 | 22K, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3167 | 4835 116 57706 | 22K, 5%, 1/2W, Metal Film (ASD038 & 046 only) |

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| 3169 | 4835 116 57726 | 470K, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3191 | 4835 116 57686 | 10K, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3195 | 4835 116 57705 | 220R, 5%, 1/2W, Metal Film (ASD038 & 046 only) |
| 3152 | 4835 116 57685 | 1K, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3154 | 4835 116 57736 | 6.8k, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3158 | 4835 116 57714 | 3.3k, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3164 | 4835 116 57726 | 470K, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3166 | 4835 116 57706 | 22K, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3168 | 4835 116 57706 | 22K, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3170 | 4835 116 57726 | 470K, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3190 | 4835 116 57686 | 10K, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3194 | 4835 116 57705 | 220 ohm, 5%, 1/2W, Metal Film (ASD038, 044 & 046 only) |
| 3160 | 4835 116 57724 | 4.7k, 5%, 1/2W, Metal Film (ASD044 only) |
| 3162 | 2322 187 53471 | 470 ohm, 5%, 1/2W, Metal Film (ASD044 only) |
| 3155 | 4835 116 57724 | 4.7k, 5%, 1/2W, Metal Film (ASD041 only) |
| 3156 | 4835 116 57724 | 4.7k, 5%, 1/2W, Metal Film (ASD041 only) |
| 3192 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film (ASD041 only) |
| 3193 | 4835 116 57723 | 470 ohm, 5%, 1/2W, Metal Film (ASD041 only) |
| **SEMICONDUCTORS** | | |
| 6101 | 4822 130 33939 | Diode |
| 6102 | 4835 130 37909 | Zener Diode, 2.7V |
| 6103 | 4822 130 33939 | Diode |
| 7101 | 4835 209 88493 | IC, Stereo Decoder (ASD038, 041, & 046 only) |
| 7103 | 4835 209 88543 | IC, 3w Amp |
| 7105 | 4835 130 47055 | Bass Boost, Transistor (ASD038 & 046 only) |
| 7107 | 4835 130 47055 | Treble Boost, Transistor (ASD038 & 046 only) |
| 7106 | 4835 130 47055 | Bass Boost, Transistor (ASD038, 044 & 046 only) |
| 7108 | 4835 130 47055 | Treble Boost, Transistor (ASD038, 044, & 046 only) |
| **MISCELLANEOUS** | | |
| 1101 | 4835 122 97102 | 503kHz., Crystal (ASD038, 041, & 046 only) |
| C1A | 2422 025 14671 | 4 Pin (ASD038, 041, 044, & 046 only) |
| C2 | 2422 025 15098 | 9 Pin |
| C3 | 2422 025 15098 | 9 Pin |
| C3A | 2422 025 15099 | 10 Pin |
| C4 | 2422 025 14675 | 8 Pin (ASD046 only) |
| HS103 | 3135 011 01130 | Heatsink |
| SH101 | 3135 011 01190 | Shield (ASD038, 041, & 046 only) |
| 9114 | 0322 179 00003 | Buss Wire 0.6 (ASD044 only) |

**00ASD038/41/44/45/46**
**STEREO MODULE P.C. BOARD (TOP VIEW)**




**00ASD038/41/44/45/46**
**STEREO MODULE P.C. BOARD (BOTTOM VIEW)**



## B8 CHASSIS REPLACEMENT PARTS LIST (continued)

| Ref. | Part Number | Description |
|---|---|---|
| **MISCELLANEOUS (continued)** | | |
| BS9 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS10 | 0322 179 00003 | Buss Wire (All Non-Commerical Models) |
| BS12 | 0322 179 00003 | Buss Wire (All Non-Commerical Models) |
| BS13 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS14 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS15 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS16 | 0322 179 00003 | Buss Wire (All Non-Commerical Models) |
| BS17 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS18 | 0322 179 00003 | Buss Wire (All Non-Commerical Models) |
| BS19 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS20 | 0322 179 00003 | Buss Wire (All Models w/4700 Micro) |
| BS21 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS22 | 0322 179 00003 | Buss Wire (All Models w/4700 Micro) |
| BS23 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| BS31 | 0322 179 00003 | Buss Wire (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| BS32 | 0322 179 00003 | Buss Wire (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| BS33 | 0322 179 00003 | Buss Wire (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| BS50 | 0322 179 00003 | Buss Wire (25" & 27" Models Only) |
| BS51 | 0322 179 00003 | Buss Wire (25" & 27" Models Only) |
| BS52 | 0322 179 00003 | Buss Wire (25" & 27" Models Only) |
| BS224 | 0322 179 00003 | Buss Wire (27" w/ LCS) |
| BS506 | 0322 179 00003 | Buss Wire (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| BS700 | 0322 179 00003 | Buss Wire (27" w/ LCS) |
| BS701 | 0322 179 00003 | Buss Wire (All 19", 25", & 27" Models w/DBX, LCS, & Mono) |
| BS702 | 0322 179 00003 | Buss Wire (27" w/ LCS) |
| BS704 | 0322 179 00003 | Buss Wire (All 19", 25", & 27" Models w/DBX, LCS, & Mono |
| BS705 | 0322 179 00003 | Buss Wire (27" w/ LCS) |
| BS710 | 4835 111 27056 | Metal Film Zero Ohm 0805 (All 25" & 27" Models w/ Jack Panels) |
| BS740 | 0322 179 00003 | Buss Wire (All 25" & 27" Models w/LCS & Mono) |
| ⚠ F400 | 4835 253 97164 | Fuse, T 3.15A IEC (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| ⚠ F400 | 4835 253 97095 | Fuse, 4A (All 19", 20", 25", & 27" & All Latam Models w/out AMV) |
| ⚠ F442 | 4835 253 97031 | Fuse, Pico, 2.5A |
| F443 | 4835 253 97031 | Fuse, Pico, 2.5A |
| FB410 | 4835 157 67084 | Peaking Coil |
| FB425 | 4835 157 67085 | Peaking Coil |
| FB426 | 4835 157 67085 | Peaking Coil |
| FB446 | 4835 157 67085 | Peaking Coil (25" & 27" Card & Card Ready Models) |
| FB447 | 4835 157 67085 | Peaking Coil (25" & 27" Card & Card Ready Models) |
| FB450 | 4835 157 67085 | Peaking Coil |
| HS400 | 0020 100 70001 | Solder Lug f/ IC400 |
| HS400 | 3135 011 00810 | Switch Mode Heatsink f/ IC400 |
| HS450 | 3135 011 00790 | Heatsink, f/ Diode D450 |
| HS502 | 0014 733 10001 | Heatsink Connector f/ IC500 |
| HS502 | 0020 100 70001 | Solder Lug f/ IC502 |
| HS502 | 3135 011 00970 | Heatsink 502-550SS (All 19" Models only) |

| Ref. | Part Number | Description |
|---|---|---|
| **MISCELLANEOUS (continued)** | | |
| HS502 | 3135 011 00990 | Heatsink (25" & 27" Card & Card Ready Models) |
| IR391 | 4835 210 27035 | IR Receiver TFMS5360 |
| J1 | 3135 010 00470 | 1 Pin Board Connector (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| J181 | 2422 025 14672 | 4 Pin Board Connector (19" Pro Basic & 20", 25", & 27" Card & Card Ready) |
| J182 | 2422 025 14671 | 4 Pin Board Connector (20", 25" & 27" Card & Card Ready Models) |
| J183 | 2422 025 14668 | 2 Pin Board Connector (19" Pro Basic) |
| J247 | 0018 224 40002 | 2 Pin Connector, Blue (19" Pro Basic & 20", 25", & 27" Card & Card Ready) |
| J281 | 2422 025 15022 | 5 Pin Board Connector (20", 25" & 27" Card & Card Ready Models) |
| J380 | 2422 025 15021 | 4 Pin Board Connector (20", 25" & 27" Card & Card Ready Models) |
| J383 | 0018 223 80002 | 2 Pin Connector, Green (20", 25" & 27" Card & Card Ready Models) |
| J390 | 2422 025 14673 | 6 Pin Board Connector (All Commercial models w/Smart Port) |
| J401 | 3135 010 00470 | 1 Pin Board Connector (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| J402 | 3135 010 00470 | 1 Pin Board Connector (25" & 27" Models Only) |
| J405 | 0046 238 40001 | Cable Ground |
| J420 | 2422 025 15019 | 3 Pin Board Connector (????) |
| J500 | 3135 010 00470 | 1 Pin Board Connector |
| J501 | 3135 010 00470 | 1 Pin Board Connector |
| J550 | 3135 010 00470 | 1 Pin Board Connector |
| J703 | 2422 025 14671 | 4 Pin Board Connector (All 19", 25", & 27" Commerical & Latam Models w/LCS) |
| J704 | 2422 025 15018 | 2 Pin Board Connector (All Models w/2 Channel S) |
| J780 | 2422 026 04769 | 6 Pin Cinch Connector (All 25" & 27" Models w/DBM S) |
| J780 | 4835 265 97406 | Phono Assembly, RA (All 20" & 25" Latam models w/4100 Micro) |
| J780 | 4835 265 97407 | Phono Assembly, RA (All 25" & 27" Models w/4100 Micro) |
| J780 | 4835 265 97422 | Phono Assembly, RA (19" Pro Basic) |
| K405 | 4835 280 47043 | Relay, 12V G5P1A B |
| S379 | 4835 276 57004 | Key Switch |
| SH271 | 3135 011 00630 | BiMos Shield |
| SH345 | 3135 011 00640 | Micro Shield |

## SERVICE NOTES

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS (continued)** | | |
| R761 | 4835 116 57706 | 22k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R762 | 3198 021 55130 | 51k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R763 | 3198 021 55130 | 51k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R764 | 4835 116 57702 | 1.8k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| R770 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film |
| R771 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film (All Commercial & Latam Models) • |
| R772 | 4835 116 57687 | 100k, 5%, 1/2W, Metal Film |
| R773 | 4835 111 37104 | Metal Film 1206 RC01 (All Commercial & Latam Models) • |
| R774 | 4835 111 37022 | 1.0k, 5%, 1/8W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R775 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| R776 | 4835 116 57685 | 1.0k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS &b AVL) |
| ⚠ R777 | 4835 116 67131 | 10 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/DBM S) |
| R780 | 4835 116 57697 | 1.5k, 5%, 1/2W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| R780 | 4835 110 47006 | 2.2k, 5%, 1/2W, Metal Film (27" w/LCS) |
| R783 | 4835 111 37437 | 1.5k, 5%, 1/10W, Metal Film (LCS w/ AVL & Mono w/o Smart Sound) • |
| R783 | 4835 111 37234 | 2.2k, 5%, 1/10W, Metal Film (LCS w/o AVL) • |
| R785 | 4835 116 67222 | 150 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/DBM S) |
| R788 | 4835 116 67222 | 150 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/DBM S) |
| R790 | 4835 116 57739 | 75 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/Jack panels) |
| R791 | 4835 116 57684 | 100 ohm, 5%, 1/2W, Metal Film (All 25" & 27" Models w/Jack panels) |
| R792 | 4835 116 57633 | 3.3k, 5%, 1/2W, Metal Oxide (All 25" & 27" Models w/Jack panels) |
| R793 | 4835 116 57697 | 1.5k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/Jack panels) |
| R794 | 4835 116 57686 | 10k, 5%, 1/2W, Metal Film (All 25" & 27"Commercial Models w/Jack panels) |
| R794 | 4835 116 57725 | 47k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/DBM S) |
| R795 | 4835 116 57633 | 3.3k, 5%, 1/2W, Metal Oxide (All 25" & 27" Models w/S) |
| R796 | 4835 116 57697 | 1.5k, 5%, 1/2W, Metal Film (All 25" & 27" Models w/S) |
| R797 | 4835 111 37216 | 10k, 5%, 1/10W, Metal Film (All 25" & 27" Models & Latam Models w/LCS & AVL) • |
| R797 | 4835 111 37445 | 47k, 5%, 1/10W, Metal Film (All 25" & 27" Models w/DBM S) • |
| **ICs & TRANSISTORS** | | |
| IC271 | 4835 209 88544 | TDA8373C/N3 Signal Processor |

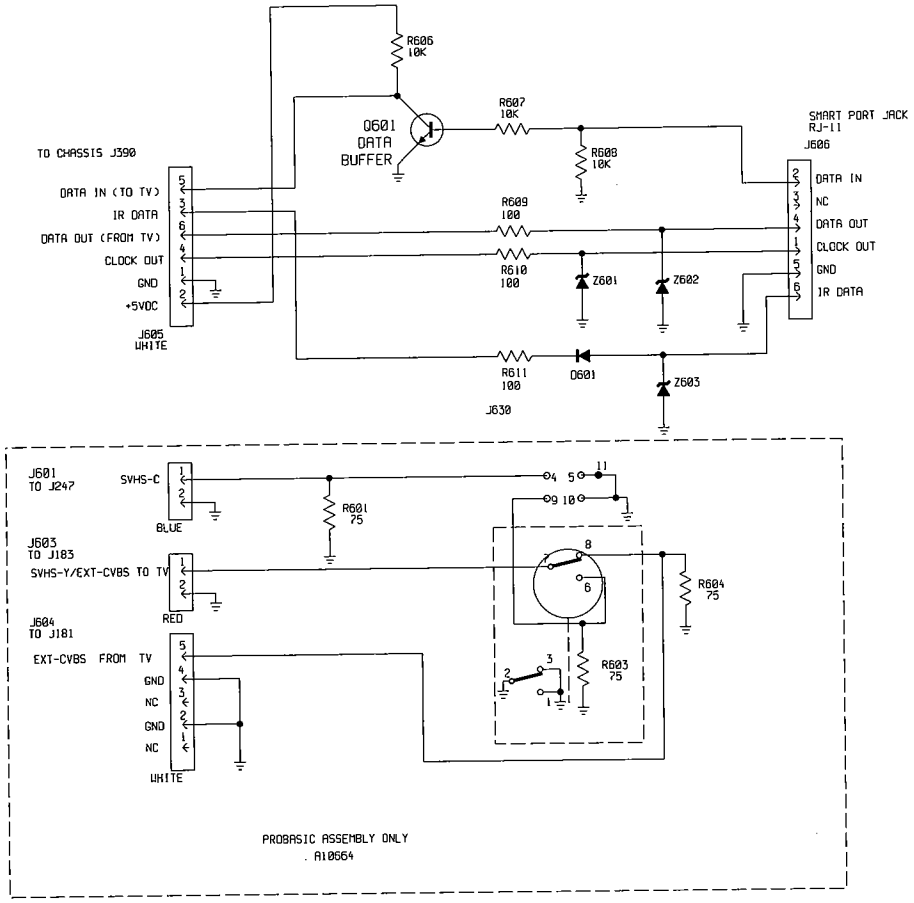
| Ref. | Part Number | Description |
|---|---|---|
| **ICs & TRANSISTORS (continued)** | | |
| IC345 | 4835 209 88525 | IC LC864725 Microprocessor (All Commerical Models) |
| IC345 | 4835 209 88523 | LC864132B Microprocessor (All Non-Commerical Models) |
| IC346 | 4835 209 88527 | IC ST24C04FB1 Memory |
| IC400 | 4835 209 88535 | IC STRF6514-LF1352 Power Supply Driver (All 19", 20", 25", & 27" & All Latam Models w/o AMV) |
| IC400 | 4835 209 88536 | IC STRF6524-LF1352 Power Supply Driver (All 19" w/SVHS & 20", 25", & 27" Latam Models w/AMV) |
| IC500 | 2422 487 89814 | Isolation BG40169 |
| IC500 | 4835 209 88531 | IC TDA9302H |
| IC700 | 4835 209 88533 | IC LA7765 S Decoder (All 19", 25", & 27" Commerical & Latam Models w/LCS) |
| IC710 | 4835 209 17033 | IC HEF4053BP 2-Channel Multi-deplexer (All 19", 25", & 27" Models w/LCS) |
| IC720 | 4835 209 88534 | IC TA7668BP AVL Controller (All 25" & 27" Models and 19" Commercial w/LCS) |
| IC730 | 4835 209 88542 | IC TDA7052B/N1 BTL Audio Amplifier (All 25" & 27" Models & Commercial Models w/LCS) |
| IC740 | 4835 209 88542 | IC TDA7052B/N1 BTL Audio Amplifier (All 19", 25", & 27" Commerical & Latam Models w/LCS) |
| Q221 | 5322 130 60508 | Transistor, BC857B Video Buffer 1 |
| Q225 | 4822 130 60511 | Transistor, BC847B Video Buffer 2 |
| Q230 | 5322 130 60508 | Transistor, BC857B Sound Buffer |
| Q275 | 4835 130 47192 | Transistor, BC547C (19" Pro Basic & 20", 25", & 27" Card & Card Ready Models) |
| Q290 | 4835 130 48111 | Transistor, 2SC2383-0 %V Regulator |
| Q300 | 4822 130 60511 | Transistor, BC847B Reset 1 |
| Q301 | 4822 130 60511 | Transistor, BC847B Reset 2 |
| Q325 | 4822 130 60511 | Transistor, BC847B |
| Q327 | 4822 130 60511 | Transistor, BC847B |
| Q340 | 4822 130 60511 | Transistor, BC847B Led Driver (All 19", 20", 25" & 27" Models w/LED) |
| Q341 | 4822 130 60511 | Transistor, BC847B Power On/Off |
| Q382 | 4822 130 60511 | Transistor, BC847B CC Buffer |
| Q408 | 4835 130 48112 | Transistor, BC327-25 Relay Driver |
| Q410 | 4835 130 48112 | Transistor, BC327-25 Sample Switch |
| Q465 | 4835 130 48111 | Transistor, 2SC2383-0 Switch |
| Q466 | 4835 130 48111 | Transistor, 2SC2383-0 5V Regulator |
| Q467 | 4835 130 48113 | Transistor, BC337-25 |
| Q501 | 4835 130 48115 | Transistor, MPSA92 H-Drive Buffer |
| Q502 | 4835 130 47073 | Transistor, 2SC2482 Horizontal Driver |
| Q503 | 4835 532 47018 | Transistor, BU2508DF Horizontal Driver |
| Q510 | 4822 130 60511 | Transistor, BC847B |
| Q540 | 4835 130 48116 | Transistor, ON769 Shutdown |
| Q541 | 5322 130 60508 | Transistor, BC857B Shutdown |
| Q701 | 5322 130 60508 | Transistor, BC857B Buffer (All 25" & 27" Models w/LCS) |
| Q702 | 4822 130 60511 | Transistor, BC847B Buffer (All 25" & 27" Models w/LCS) |
| Q703 | 5322 130 60508 | Transistor, BC857B Input Amplifier (All 25" & 27" Models w/LCS) |
| Q704 | 4822 130 60511 | Transistor, BC847B Aux Switch (All 25" & 27" Models w/LCS) |
| Q720 | 4822 130 60511 | Transistor, BC847B AVL Switch (All 25" & 27" Models & Latam Models w/LCS & AVL) |
| Q731 | 4822 130 60511 | Transistor, BC847B Bass Boost (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |

B8 CHASSIS REPLACEMENT PARTS LIST (continued)

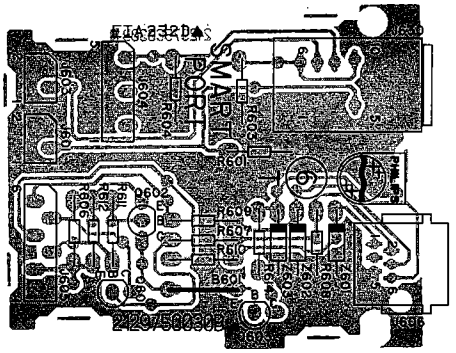
| Ref. | Part Number | Description |
|---|---|---|
| **ICs & TRANSISTORS (continued)** | | |
| Q733 | 4822 130 60511 | Transistor, BC847B Treble Boost (All 19", 20", 25", & 27" Latam/ Commerical models w/Smart Sound) |
| **DIODES** | | |
| D224 | 4835 130 37905 | Diode, Silicon BAS216 (All 19", 20", 25" & 27" Models) |
| D225 | 4835 130 37905 | Diode, Silicon BAS216 (All 19", 20", 25" & 27" Models) |
| D341 | 4835 130 97095 | LED LTL-307G (All Models w/LED) |
| D401 | 4835 130 37829 | Diode, Silicon 1S1888A |
| D402 | 4835 130 37829 | Diode, Silicon 1S1888A |
| D404 | 4835 130 37829 | Diode, Silicon 1S1888A |
| D405 | 4835 130 37829 | Diode, Silicon 1S1888A |
| D407 | 4835 130 37581 | Diode, Silicon BAT85 |
| D408 | 4835 130 37048 | Diode, Silicon 1N4148 |
| D409 | 4835 130 37094 | Diode, Silicon BYD33J |
| D410 | 4835 130 37094 | Diode, Silicon BYD33J |
| D411 | 4835 130 37048 | Diode, Silicon 1N4148 |
| D412 | 4835 130 37905 | Diode, Silicon BAS216 |
| D413 | 4835 130 37094 | Diode, Silicon BYD33J |
| D414 | 4835 130 37905 | Diode, Silicon BAS216 |
| D442 | 4835 130 37059 | Diode, Silicon BYW95C |
| D445 | 4835 130 37094 | Diode, Silicon BYD33J (25" & 27" Models Only) |
| D446 | 4835 130 37663 | Diode, Silicon MUR820 (25" & 27" Card & Card Ready Models) |
| D448 | 4835 130 37059 | Diode, Silicon BYW95C (Not Used in 20", 25" & 27" Card & Card Ready Models) |
| D450 | 4835 130 37773 | Diode, Silicon BYM36C |
| D460 | 4835 130 37094 | Diode, Silicon BYD33J |
| D508 | 4835 130 37905 | Diode, Silicon BAS216 |
| D509 | 4835 130 37048 | Diode, Silicon 1N4148 |
| D511 | 4835 130 37052 | Diode, Silicon BYV95C |
| ⚠ D530 | 4835 130 37905 | Diode, Silicon BAS216 |
| D550 | 4835 130 37094 | Diode, Silicon BYD33J |
| D563 | 4835 130 37048 | Diode, Silicon 1N4148 |
| D571 | 4835 130 37094 | Diode, Silicon BYD33J |
| D578 | 4835 130 37905 | Diode, Silicon BAS216 |
| D770 | 4835 130 37905 | Diode, Silicon BAS216 (All Commercial & Latam Models) |
| D771 | 4835 130 37905 | Diode, Silicon BAS216 (All Commercial & Latam Models) |
| Z290 | 4835 130 37915 | Zener Diode, BZX79-F33 |
| Z291 | 4835 130 37916 | Zener Diode, BZX79-F5V6 |
| Z300 | 4835 130 37299 | Zener Diode, BZX79-F9V1 |
| Z301 | 4835 130 37912 | Zener Diode, BZX79-F10 |
| Z410 | 4835 130 37584 | Zener Diode, BZX79-C7V5 |
| Z461 | 4835 130 37912 | Zener Diode, BZX79-F10 |
| Z462 | 4835 130 37912 | Zener Diode, BZX79-F10 |
| Z463 | 4835 130 37917 | Zener Diode, BZX79-F6V2 |
| Z540 | 4835 130 37917 | Zener Diode, BZX79-F6V2 |
| Z564 | 4835 130 37913 | Zener Diode, BZX79-F13 |
| Z770 | 4835 130 37914 | Zener Diode, BZX79-F2V7 (All Commercial & Latam Models) |
| **COILS & TRANSFORMERS** | | |
| L210 | 4835 150 57079 | Coil, ADJ 7MA |
| L221 | 4835 157 67074 | Peaking Coil, 10uH |
| L274 | 4835 157 67076 | Peaking Coil, 22uH |
| L290 | 4835 157 67054 | Peaking Coil, 1.0uH |
| L302 | 4835 157 67056 | Peaking Coil, 2.2uH |
| L315 | 4835 157 67049 | Peaking Coil, 2.7uH |
| L318 | 4835 157 67056 | Peaking Coil, 2.2uH |
| L320 | 4835 157 67056 | Peaking Coil, 2.2uH |
| L358 | 4835 157 58097 | Coil, Adj., 5uH. (All Commerical Models) |
| ⚠ L400 | 4835 152 17001 | Transformer, Line Filter |
| L410 | 4835 157 67048 | Peaking Coil, 0.68uH |
| ⚠ L507 | 4835 150 57001 | Linearity Coil (All 20" Models) |

| Ref. | Part Number | Description |
|---|---|---|
| **COILS & TRANSFORMERS (continued)** | | |
| ⚠ L517 | 4835 150 57002 | Linearity Coil (All 25" & 27" Models) |
| L568 | 4835 157 67086 | Peaking Coil, 12uH |
| L770 | 4835 157 67051 | Peaking Coil, 5.6uH |
| T425 | 4835 140 67174 | Transformer, SMPS |
| ⚠ T501 | 4835 140 67169 | Flyback Transformer (All 19" Models only) |
| ⚠ T502 | 4835 140 67168 | Flyback Transformer (All 25" & 27" Models) |
| T504 | 4835 142 47021 | Transformer Driver, U15B |
| **TUNERS** | | |
| T290 | 4835 210 47096 | Tuner, UV1336/F (Not Used In 20", 25" & 27" Card & Card Ready Models) |
| T290 | 4835 210 47097 | Tuner, UV1336/PH (20", 25" & 27" Card & Card Ready Models) |
| **VARIABLE COMPONENTS** | | |
| V505 | 4835 116 57139 | 0.47 ohm, 5%, 1/2W, Metal Film |
| V547 | 0322 179 00003 | Buss Wire |
| V558 | 4835 122 87538 | 0.022uF., 10%, 50V, Ceramic (All Commerical Models) • |
| V558 | 4835 111 27056 | Metal Film Zero Ohm 0805 (All Non-Commerical Models) |
| Y200 | 4835 153 97022 | Saw Filter, 45M75M1962L |
| Y220 | 4835 152 17013 | Ceramic Filter, 4M5SFSHBP B (All 19", 20", 25", & 27" Models w/Mono) |
| Y220 | 4835 153 57004 | Ceramic Filter 4.5MHz. (All 19", 25", & 27" models w/S) |
| Y221 | 4835 154 17001 | Ceramic Filter, 4M5TPS BS B |
| Y264 | 4835 242 77276 | Crystal, 3M579 18P |
| Y320 | 4835 122 97101 | Ceramic Resistor, 12MCST MTWB (All Models w/4100 & 4700 Micro) |
| Y321 | 4835 242 77023 | Crystal, 32K768 10PB (All 20", 25", & 27" Models w/4700 Micro) |
| Y700 | 4835 122 97103 | Ceramic Resistor, CSB378F2 B (All 19", 25", & 27" Commerical & Latam Models w/LC |
| **MISCELLANEOUS** | | |
| | 00BM B81 60300 | 19" 7A Seq Mono J (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| | 00DM B81 60400 | 19" 7A Usm Mono J (All 19", 20" & 25" w/Mono & 25" & 27" Latam Models) |
| | 0322 179 00003 | Buss Wire |
| B11 | 0322 179 00003 | Buss Wire (All Commerical Models) |
| B50 | 0322 179 00003 | Buss Wire (25" & 27" Models Only) |
| BKT391 | 3135 014 02200 | IR Receiver Base |
| BKT491 | 4835 432 17745 | Holder f/LED (19" Models w/Smart Sound/All 20" Models) |
| BR201 | 4835 111 27056 | 0 ohm Jumper |
| BR202 | 3198 021 90010 | 0 ohm Jumper |
| BS1 | 0322 179 00003 | Buss Wire (All 19", 20" & 25" w/Mono & 25" &27" Latam Models) |
| BS2 | 0322 179 00003 | Buss Wire (All Non-Commerical Models ) |
| BS3 | 0322 179 00003 | Buss Wire (All Commerical Models ) |
| BS4 | 0322 179 00003 | Buss Wire (All Non-Commerical Models ) |
| BS5 | 0322 179 00003 | Buss Wire (All Commerical Models ) |
| BS6 | 0322 179 00003 | Buss Wire (All Non-Commerical Models ) |
| BS7 | 0322 179 00003 | Buss Wire (All Commerical Models ) |
| BS8 | 0322 179 00003 | Buss Wire (All Non-Commerical Models ) |

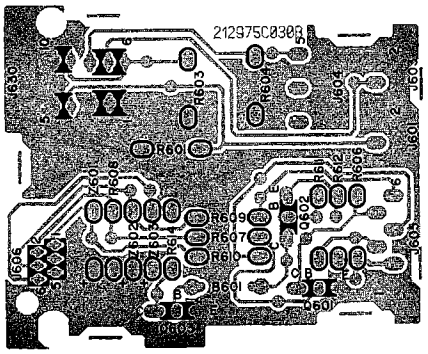
## 00A10664/5 LODGING SMART PORT SCHEMATIC DIAGRAM




## 00A10664/5 LODGING SMART PORT P.C. BOARD (TOP VIEW)



## 00A10664/5 LODGING SMART PORT P.C. BOARD (BOTTOM VIEW)

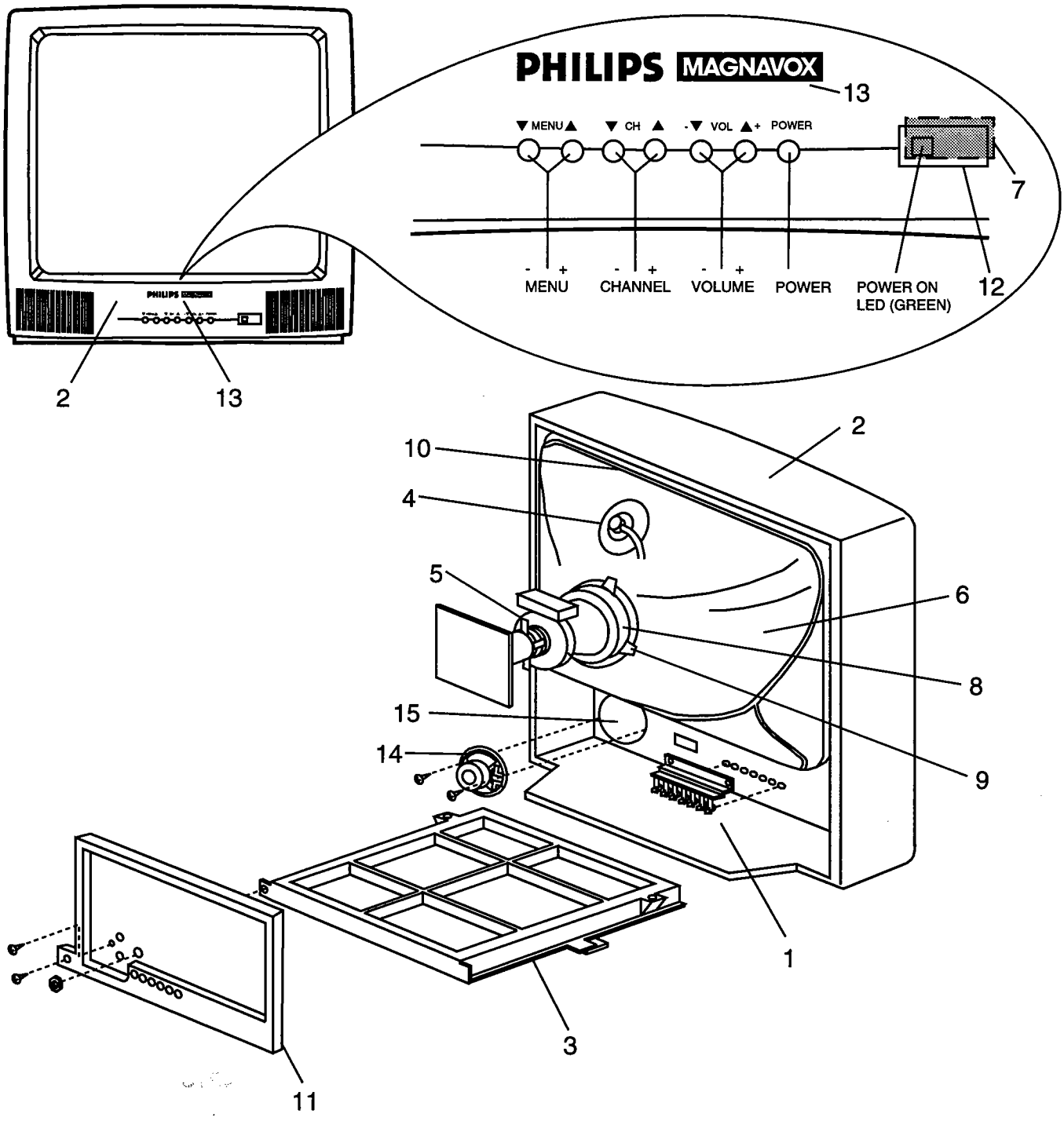


## 00A10664 & 00A10665 LODGING SMART PORT REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **RESISTORS** | | |
| R601 | 4835 116 57328 | 75 ohm, 5%, 1/4W, Metal Film (A10664 only) |
| R603 | 4835 116 57328 | 75 ohm, 5%, 1/4W, Metal Film (A10664 only) |
| R604 | 4835 116 57328 | 75 ohm, 5%, 1/4W, Metal Film (A10664 only) |
| R606 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |
| R607 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |
| R608 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |
| R609 | 4835 116 57318 | 100 ohm, 5%, 1/4W, Metal Film |
| R610 | 4835 116 57318 | 100 ohm, 5%, 1/4W, Metal Film |
| R611 | 4835 116 57318 | 100 ohm, 5%, 1/4W, Metal Film |

| Ref. | Part Number | Description |
|---|---|---|
| **SEMICONDUCTORS** | | |
| D601 | 9336 247 60133 | Diode BAT85 |
| Q601 | 4835 130 47064 | Transistor, NPN |
| Z601 | 3198 010 28280 | Zener Diode 8.2V |
| Z602 | 3198 010 28280 | Zener Diode 8.2V |
| Z603 | 3198 010 28280 | Zener Diode 8.2V |
| **MISCELLANEOUS** | | |
| J601 | 0018 224 40002 | 2 Pin Connector, Blue (A10664 only) |
| J603 | 2422 025 15018 | 2 Pin Connector (A10664 only) |
| J630 | 3104 308 71770 | SVHS Connector (A10664 only) |
| J604 | 2422 025 14672 | 5 Pin Connector |
| J605 | 2422 025 14673 | 6 Pin Connector |
| J606 | 0018 221 20006 | Phone Jack, RJ6 |

# TYPICAL TABLE MODEL EXPLODED VIEW

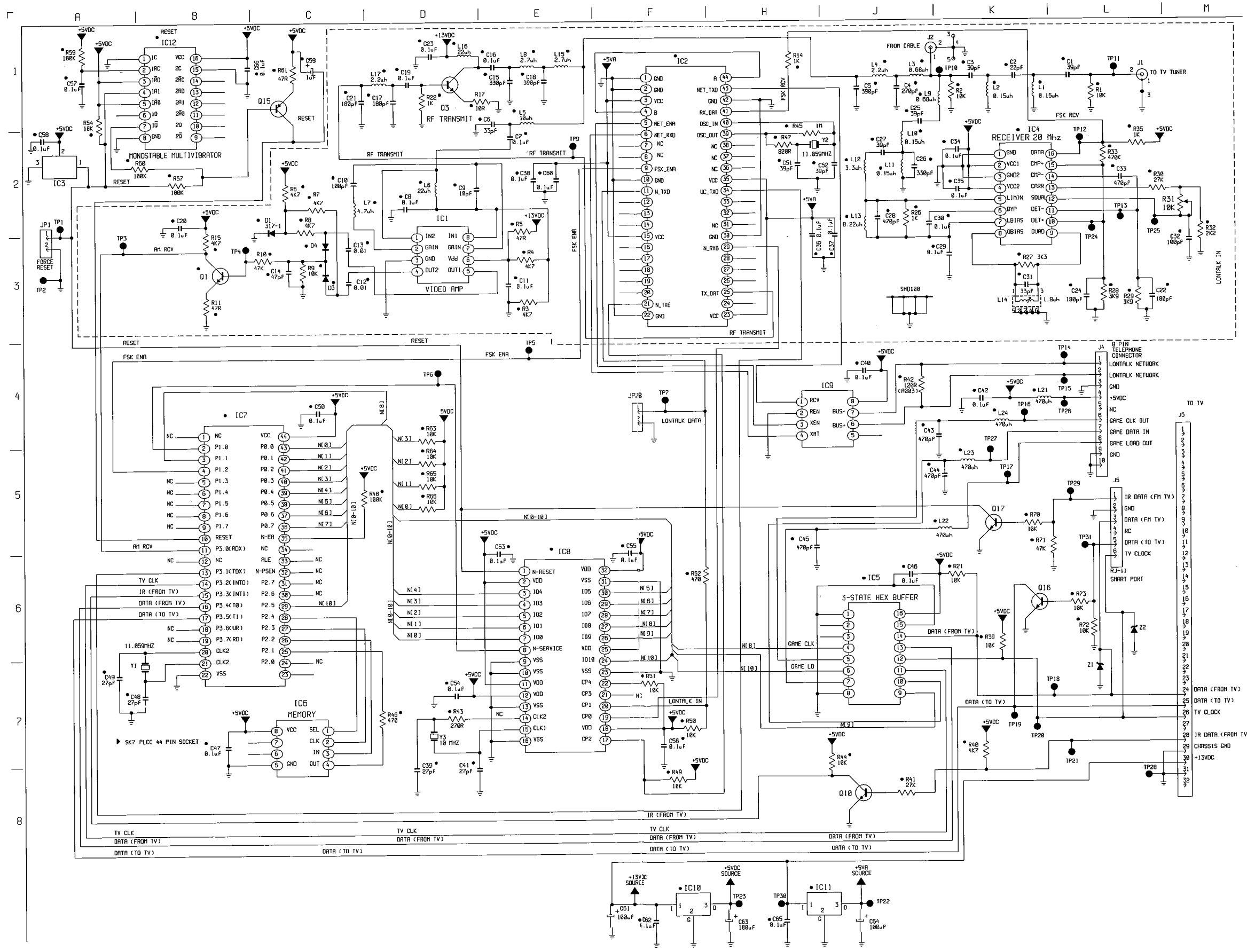



| REF. | DESCRIPTION |
|---|---|
| 1 | Button Assembly |
| 2 | Cabinet Front |
| 3 | Chassis Frame |
| 4 | Clip f/Anode Lead |
| 5 | Convergence & Purity Asm. |
| 6 | CRT |
| 7 | Crystal* |
| 8 | Deflection Yoke |

| REF. | DESCRIPTION |
|---|---|
| 9 | Deflection Yoke Wedge (3 or 4 Used) |
| 10 | Degaussing Coil |
| 11 | Jack Panel Plastic |
| 12 | Lens f/IR Rec.* |
| 13 | Name Plate |
| 14 | Speaker |
| 15 | Speaker Grille |

*NOT ON ALL MODELS

# 00A10602 OCV TV MODULE SCHEMATIC DIAGRAM





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00A10671 KeyBoard/Sound Shaper Schematic Diagram(s).....31
00ASD038/41/44/45/46 Stereo Module Schematic Diagram(s)....39
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## 00A10602 (4835 219 57575) OCV TV MODULE REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS** | | |
| C1 | 4835 122 87016 | 39pF., 5%, 50V, Ceramic• |
| C2 | 4835 122 87286 | 22pF., 5%, 50V, Ceramic• |
| C3 | 4835 122 87016 | 39pF., 5%, 50V, Ceramic• |
| C4 | 4835 122 87468 | 270pF., 5%, 50V, Ceramic• |
| C5 | 4835 122 87468 | 270pF., 5%, 50V, Ceramic• |
| C5 | 4835 122 87094 | 390pF., 5%, 50V, Ceramic |
| C6 | 4835 122 87414 | 33pF., 5%, 50V, Ceramic• |
| C7 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C8 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C9 | 4835 122 87412 | 10pF., +/-.5pF., 50V, Ceramic• |
| C10 | 4835 122 87012 | 100pF., 5%, 50V, Ceramic• |
| C11 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C12 | 4835 122 87042 | 0.01uF., 10%, 50V, Ceramic• |
| C13 | 4835 122 87042 | 0.01uF., 10%, 50V, Ceramic• |
| C14 | 4835 122 87017 | 47pF., 5%, 50V, Ceramic• |
| C15 | 4835 122 87032 | 330pF., 5%, 50V, Ceramic• |
| C16 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C17 | 4835 122 87028 | 180pF., 5%, 50V, Ceramic• |
| C18 | 4835 122 87099 | 390pF., 5%, 50V, Ceramic |
| C19 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C20 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C21 | 4835 122 87028 | 180pF., 5%, 50V, Ceramic• |
| C22 | 4835 122 87015 | 180pF., 5%, 50V, Ceramic• |
| C23 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C24 | 4835 122 87015 | 180pF., 5%, 50V, Ceramic• |
| C25 | 4835 122 87016 | 39pF., 5%, 50V, Ceramic• |
| C26 | 4835 122 87287 | 330pF., 5%, 50V, Ceramic• |
| C27 | 4835 122 87016 | 39pF., 5%, 50V, Ceramic• |
| C28 | 4835 122 87451 | 470pF., 5%, 50V, Ceramic• |
| C29 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C30 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C31 | 4835 122 87414 | 33pF., 5%, 50V, Ceramic• |
| C32 | 4835 122 87012 | 100pF., 5%, 50V, Ceramic• |
| C33 | 4835 122 87451 | 470pF., 5%, 50V, Ceramic• |
| C34 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C35 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C36 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C37 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C38 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C39 | 4835 122 87381 | 27pF., 5%, 50V, Ceramic• |
| C40 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C41 | 4835 122 87381 | 27pF., 5%, 50V, Ceramic• |
| C42 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C43 | 4835 122 87451 | 470pF., 5%, 50V, Ceramic• |
| C44 | 4835 122 87451 | 470pF., 5%, 50V, Ceramic• |
| C45 | 4835 122 87451 | 470pF., 5%, 50V, Ceramic• |
| C46 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C47 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C48 | 4835 122 87381 | 27pF., 5%, 50V, Ceramic• |
| C49 | 4835 122 87381 | 27pF., 5%, 50V, Ceramic• |
| C50 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C51 | 4835 122 87016 | 39pF., 5%, 50V, Ceramic• |
| C52 | 4835 122 87016 | 39pF., 5%, 50V, Ceramic• |
| C53 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C54 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C55 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C56 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C57 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C58 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic • |
| C59 | 4835 124 97175 | 1uF., 35V, Electrolytic• |
| C60 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic • |
| C61 | 4835 124 47501 | 100uF., 25V, Electrolytic |
| C62 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C63 | 4835 124 47501 | 100uF., 25V, Electrolytic |
| C64 | 4835 124 47501 | 100uF., 25V, Electrolytic |
| C65 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic• |
| C66 | 4835 122 87061 | 0.1uF., 10%, 50V, Ceramic • |
| **RESISTORS** | | |
| R1 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R2 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R3 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R4 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R5 | 4835 111 37107 | 47 ohm, 5%, 1/4W, Metal Film• |
| R6 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R7 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R8 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R9 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R10 | 4835 111 37038 | 47k, 5%, 1/4W, Metal Film• |
| R11 | 4835 111 37107 | 47 ohm, 5%, 1/4W, Metal Film• |
| R14 | 4835 111 37022 | 1k, 5%, 1/4W, Metal Film• |
| R15 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R17 | 4835 111 37132 | 10 ohm, 5%, 1/4W, Metal Film• |
| R21 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R22 | 4835 111 37022 | 1k, 5%, 1/4W, Metal Film• |
| R26 | 4835 111 37022 | 1k, 5%, 1/4W, Metal Film• |
| R27 | 4835 111 37035 | 3.3k, 5%, 1/4W, Metal Film• |
| R28 | 4835 111 37096 | 3.9k, 5%, 1/4W, Metal Film• |
| R29 | 4835 111 37096 | 3.9k, 5%, 1/4W, Metal Film• |
| R30 | 4835 111 37033 | 27k, 5%, 1/4W, Metal Film• |
| R31 | 4835 100 97032 | 10k, Control Adj. |
| R32 | 4835 111 37072 | 2.2k, 5%, 1/4W, Metal Film• |
| R33 | 4835 111 37105 | 470k, 5%, 1/4W, Metal Film• |
| R35 | 4835 111 37022 | 1k, 5%, 1/4W, Metal Film• |
| R39 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R40 | 4835 111 37037 | 4.7k, 5%, 1/4W, Metal Film• |
| R41 | 4835 111 37033 | 27k, 5%, 1/4W, Metal Film• |
| R43 | 4835 111 37032 | 270 ohm, 5%, 1/4W, Metal Film• |
| R44 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R45 | 4835 111 37047 | 1 Meg, 5%, 1/4W, Metal Film• |
| R46 | 4835 111 37104 | 470 ohm, 5%, 1/4W, Metal Film• |
| R47 | 4835 111 37123 | 820 ohm, 5%, 1/4W, Metal Film• |
| R48 | 4835 111 37024 | 100k, 5%, 1/4W, Metal Film• |
| R49 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R50 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R51 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R52 | 4835 111 37104 | 470 ohm, 5%, 1/4W, Metal Film• |
| R54 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R57 | 4835 111 37024 | 100k, 5%, 1/4W, Metal Film• |
| R59 | 4835 111 37024 | 100k, 5%, 1/4W, Metal Film• |
| R60 | 4835 111 37024 | 100k, 5%, 1/4W, Metal Film • |
| R61 | 4835 111 37107 | 47 ohm, 5%, 1/4W, Metal Film• |
| R63 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R64 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R65 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R66 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R70 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R71 | 4835 111 37038 | 47k, 5%, 1/4W, Metal Film• |
| R72 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| R73 | 4835 111 37023 | 10k, 5%, 1/4W, Metal Film• |
| **SEMICONDUCTORS** | | |
| D1 | 4835 130 37066 | Diode, Silicon• |
| D3 | 4835 130 37066 | Diode, Silicon• |
| D4 | 4835 130 37066 | Diode, Silicon• |
| IC1 | 4835 209 88447 | IC NE592N8 |
| IC2 | 9322 112 27682 | IC 85-03720 |
| IC3 | 4835 131 27099 | IC MC34064P-5 |
| IC4 | 4835 209 88444 | IC MC13055D |
| IC5 | 4835 209 88446 | IC SN74LS365AD |
| IC6 | 4835 209 47151 | IC ST93C46AMI |
| IC7 | 4835 130 48088 | IC SABC513A-RN-XXX |
| IC8 | 4835 209 17538 | IC MC143120B1DW |
| IC9 | 9322 046 36668 | IC SN75LBC176D |
| IC10 | 4835 209 87807 | +5V Regulator IC, 612833-7001• |
| IC11 | 4835 209 87807 | +5V Regulator IC, 612833-7001• |
| IC12 | 9337 149 10653 | IC 74HC4538D |
| Q1 | 4835 130 47086 | Transistor, NPN• |
| Q3 | 9332 608 10126 | Transistor 2N4401 |
| Q10 | 4835 130 47086 | Transistor, NPN• |
| Q15 | 4835 130 47112 | Transistor, PNP• |
| Q16 | 4835 130 47086 | Transistor, NPN• |
| Q17 | 4835 130 47086 | Transistor, NPN• |
| Z1 | 9340 386 60115 | Zener Diode 8.2V |
| Z2 | 9340 386 60115 | Zener Diode 8.2V |

## 00A10602 (4835 219 57575) OCV TV MODULE REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **COILS & TRANSISTORS** | | |
| L1 | 4835 157 67041 | Peaking Coil, 0.15uH.• |
| L2 | 4835 157 67041 | Peaking Coil, 0.15uH.• |
| L3 | 4835 150 57053 | Peaking Coil, .68uH.• |
| L4 | 4835 150 57054 | Peaking Coil, 2.2uH.• |
| L5 | 4835 150 57057 | Peaking Coil, 10uH.• |
| L6 | 4835 157 67043 | Peaking Coil, 22uH.• |
| L7 | 4835 150 57028 | Peaking Coil, 4.7uH., 20%• |
| L8 | 4835 157 67044 | Peaking Coil, 2.7uH.• |
| L9 | 4835 150 57053 | Peaking Coil, .68uH.• |
| L10 | 4835 157 67041 | Peaking Coil, 0.15uH.• |
| L11 | 4835 157 67041 | Peaking Coil, 0.15uH.• |
| L12 | 4835 157 67044 | Peaking Coil, 3.3uH.• |
| L13 | 4835 167 67039 | Peaking Coil, 0.22uH.• |
| L14 | 4835 150 57078 | Adj. Coil • |
| L15 | 4835 157 67044 | Peaking Coil, 2.7uH.• |
| L16 | 4835 157 67043 | Peaking Coil, 22uH.• |
| L17 | 4835 150 57054 | Peaking Coil, 2.2uH.• |
| L21 | 4835 157 67045 | Peaking Coil • |
| L22 | 4835 157 67045 | Peaking Coil • |
| L23 | 4835 157 67045 | Peaking Coil • |
| L24 | 4835 157 67045 | Peaking Coil • |

| Ref. | Part Number | Description |
|---|---|---|
| **MISCELLANEOUS** | | |
| J1 | 4835 265 97024 | Jack, Yellow |
| J2 | 0018 228 20001 | F Connector |
| J3 | 0018 233 10001 | 3 Pin ConnectorJ4 0018 228 |
| 10008 | Phone Jack | |
| J5 | 0018 228 40006 | Phone Jack |
| JP1 | 0018 152 70002 | 2 Pin Wafer Connector |
| JP2B | 0018 152 70002 | 2 Pin Wafer Connector |
| **CRYSTALS** | | |
| Y1 | 2422 543 00875 | Crystal Resonator 11.0592MHz |
| Y3 | 4835 242 77096 | Crystal 10.0MHz |
| Y-2 | 2422 543 00877 | Crystal 25MHz |

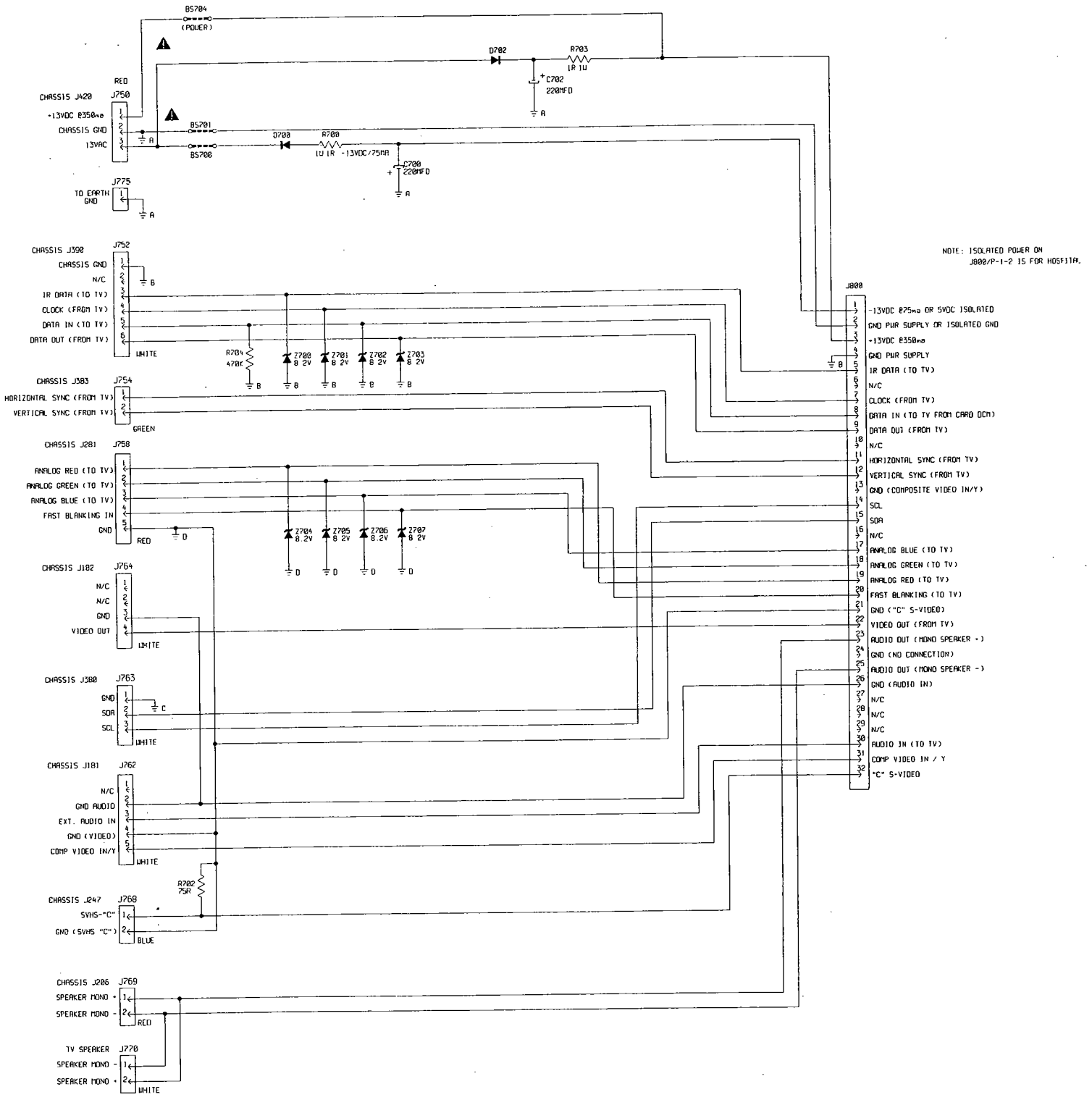
### 00A10602 OCV TV MODULE P.C. BOARD (TOP VIEW)

**NOT AVAILABLE AT TIME OF PRINTING**

### 00A10602 OCV TV MODULE P.C. BOARD (BOTTOM VIEW)

**NOT AVAILABLE AT TIME OF PRINTING**

## 00A10630 CARD INTERCONNECT SCHEMATIC DIAGRAM





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00A10671 keyboard/Sound Shaper Schematic Diagram(s)....31
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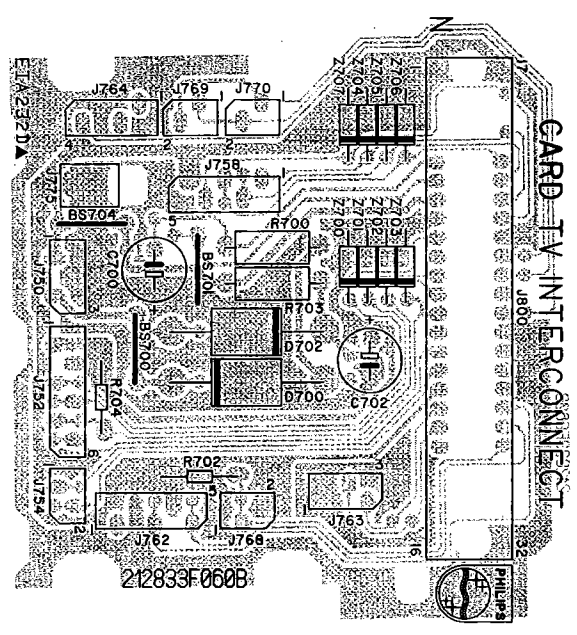
00A10640 Health Care Jack Panel Schematic Diagram(s)....44
00A10664/5 Lodging Smart Port Schematic Diagram(s)....45


## 00A10630 CARD INTERCONNECT REPLACEMENT PARTS LIST

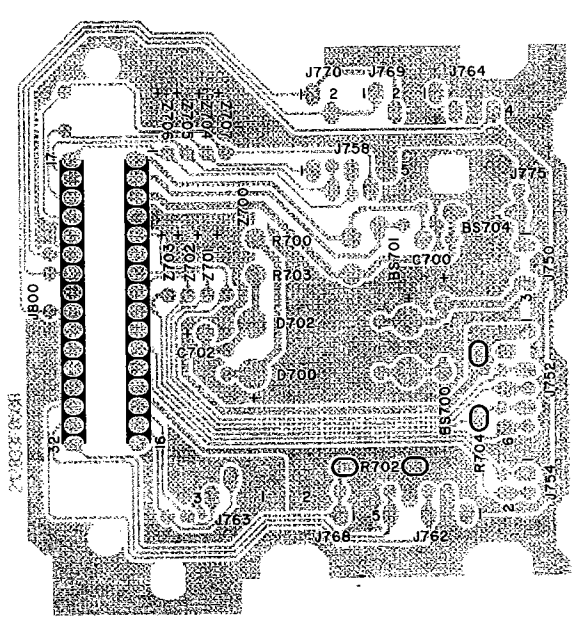
| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITORS** | | |
| C700 | 4835 124 47557 | 220uF., 25V, Electrolytic |
| C702 | 4835 124 47557 | 220uF., 25V, Electrolytic |
| **RESISTORS** | | |
| R700 | 4835 116 57117 | 1 ohm, 5%, 1W, Metal Film |
| R702 | 4835 110 67147 | 75 ohm, 5%, 1/8W, Carbon Film |
| R703 | 4835 116 57117 | 1 ohm, 5%, 1W, Metal Film |
| R704 | 4835 110 67089 | 470k, 5%, 1/8W, Carbon Film |
| **SEMICONDUCTORS** | | |
| D700 | 4835 130 37059 | Diode, Fast, Soft Recovery |
| D702 | 4835 130 37059 | Diode, Fast, Soft Recovery (B002 only) |
| Z700 | 3198 010 28280 | Zener Diode 8.2V |
| Z701 | 3198 010 28280 | Zener Diode 8.2V |
| Z702 | 3198 010 28280 | Zener Diode 8.2V |
| Z703 | 3198 010 28280 | Zener Diode 8.2V |
| Z704 | 3198 010 28280 | Zener Diode 8.2V |
| Z705 | 3198 010 28280 | Zener Diode 8.2V |
| Z706 | 3198 010 28280 | Zener Diode 8.2V |
| Z707 | 3198 010 28280 | Zener Diode 8.2V |

| Ref. | Part Number | Description |
|---|---|---|
| **MISCELLANEOUS** | | |
| J750 | 2422 025 15019 | 3 Pin Connector |
| J752 | 2422 025 14673 | 6 Pin Connector |
| J754 | 0018 223 80002 | 2 Pin Connector, Green |
| J758 | 2422 025 15022 | 5 Pin Connector |
| J762 | 2422 025 14672 | 5 Pin Connector |
| J763 | 2422 025 14669 | 3 Pin Connector |
| J764 | 2422 025 14671 | 4 Pin Connector |
| J768 | 0018 224 40002 | 2 Pin Connector, Blue |
| J769 | 2422 025 15018 | 2 Pin Connector |
| J770 | 2422 025 14668 | 2 Pin Connector |
| J800 | 0018 233 00001 | 3 Pin Connector |
| J775 | 4835 265 97017 | Contact Pins |

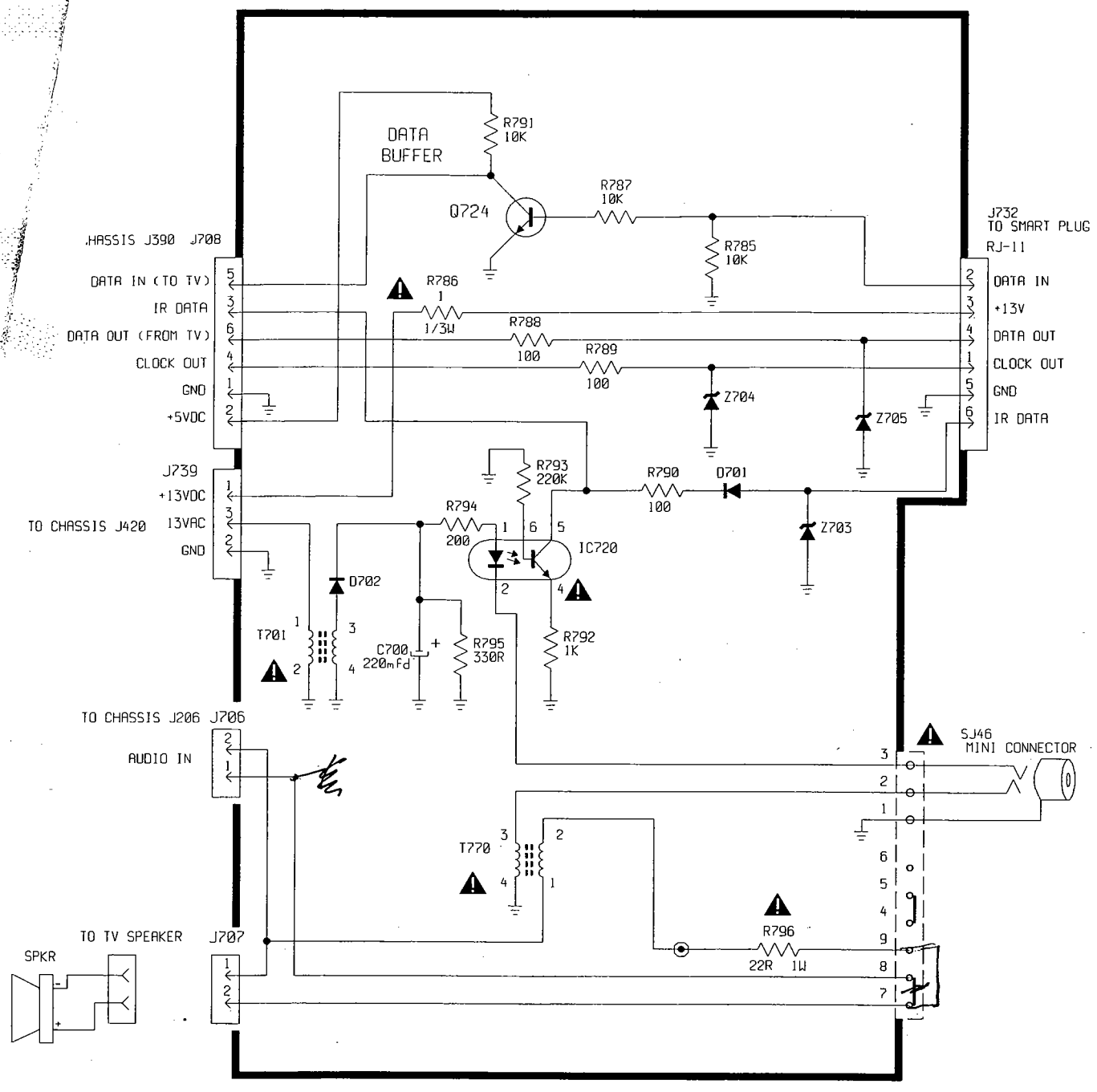
## 00A10630 CARD INTERCONNECT P.C. BOARD (TOP VIEW)

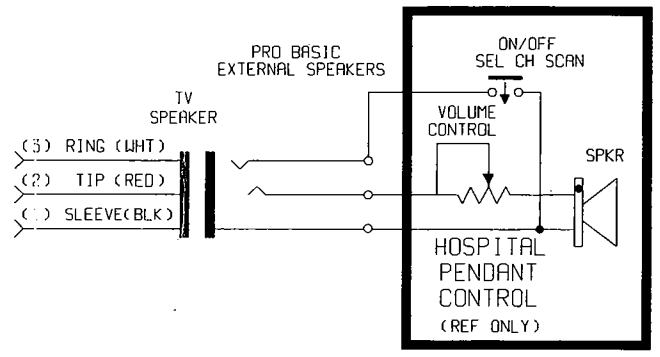



## 00A10630 CARD INTERCONNECT P.C. BOARD (BOTTOM VIEW)



## 00A10640 HEALTH CARE JACK PANEL SCHEMATIC DIAGRAM

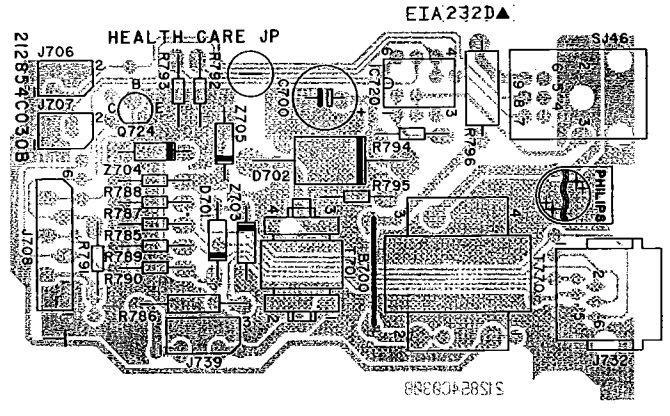


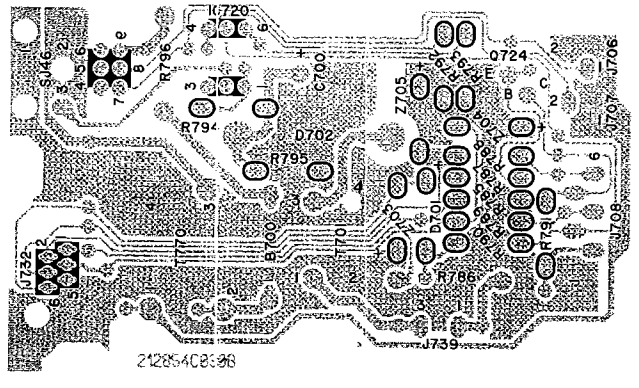

## 00A10640 (4835 219 57625) HEALTH CARE JACK PANEL REPLACEMENT PARTS LIST

| Ref. | Part Number | Description |
|---|---|---|
| **CAPACITOR** | | |
| C700 | 4835 124 47557 | 220uF., 25V, Electrolytic |
| **RESISTORS** | | |
| R785 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |
| ⚠ R786 | 4822 111 30483 | 1 ohm, 5%, 1/3W, Metal Film |
| R787 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film.00 |
| R788 | 4835 116 57318 | 100 ohm, 5%, 1/4W, Metal Film |
| R789 | 4835 116 57318 | 100 ohm, 5%, 1/4W, Metal Film |
| R790 | 4835 116 57318 | 100 ohm, 5%, 1/4W, Metal Film |
| R791 | 4835 116 57321 | 10k, 5%, 1/4W, Metal Film |
| R792 | 4835 116 57319 | 1k, 5%, 1/4W, Metal Film |
| R793 | 4835 116 57325 | 220k, 5%, 1/4W, Metal Film |
| R794 | 4835 116 57408 | 200 ohm, 5%, 1/4W, Metal Film |
| R795 | 4835 116 57421 | 330 ohm, 5%, 1/4W, Metal Film |
| ⚠ R796 | 4835 116 57153 | 22 ohm, 5%, 1W, Metal Film |
| **SEMICONDUCTORS** | | |
| D701 | 9336 247 60133 | Diode |
| D702 | 4835 130 37059 | Diode, Fast, Soft Recovery |
| ⚠ IC720 | 4835 130 37057 | Opto Isolator |
| Q724 | 4835 130 47064 | Transistor, NPN |
| Z703 | 3198 010 28280 | Zener Diode 8.2V |
| Z704 | 3198 010 28280 | Zener Diode 8.2V |
| Z705 | 3198 010 28280 | Zener Diode 8.2V |
| **MISCELLANEOUS** | | |
| B700 | 0046 012 60001 | Buss Wire |
| J706 | 2422 025 15018 | 2 Pin Connector |
| J707 | 2422 025 14668 | 2 Pin Connector |
| J708 | 2422 025 14673 | 6 Pin Connector |
| J732 | 0018 221 20006 | Phone Jack, RJ6 |
| J739 | 2422 025 15019 | 3 Pin Connector |
| SJ46 | 4835 265 97421 | Mini Stereo Switch Jack |
| ⚠ T701 | 4835 148 27048 | Transformer, IS0-Driver |
| ⚠ T770 | 4835 148 87335 | Audio Transformer |

## 00A10640 HEALTH CARE JACK PANEL P.C. BOARD (TOP VIEW)




## 00A10640 HEALTH CARE JACK PANEL P.C. BOARD (BOTTOM VIEW)



# TELEVISION/MONITOR SAFETY GUIDELINES FOR THE PROFESSIONAL SERVICE TECHNICIAN

### Safety Checks

After the original service problem has been corrected, a complete safety check should be made. Be sure to check over the entire set, not just the areas where you have worked. Some previous servicer may have left an unsafe condition, which could be unknowingly passed on to your customer. Be sure to check all of the following:

### Fire and Shock Hazard

1. Be sure all components are positioned in such a way as to avoid the possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the service shop.
2. Never release a repaired unit unless all protective devices such as insulators, barriers, covers, strain reliefs, and other hardware have been installed in accordance with the original design.
3. Soldering and wiring must be inspected to locate possible cold solder joints, solder splashes, sharp solder points, frayed leads, pinched leads, or damaged insulation (including the ac cord). Be certain to remove loose solder balls and all other loose foreign particles.
4. Check across-the-line components and other components for physical evidence of damage or deterioration and replace if necessary. Follow original layout, lead length, and dress.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces or edges must be avoided.
6. Critical components having special safety characteristics are identified with an s by the Ref. No. in the parts list and enclosed within a broken line* (where several critical components are grouped in one area) along with the safety symbol s on the schematic diagrams and /or exploded views.
7. When servicing any unit, always use a separate isolation transformer for the chassis. Failure to use a separate isolation transformer may expose you to possible shock hazard, and may cause damage to servicing instruments.
8. Many electronic products use a polarized ac line cord (one wide pin on the plug). Defeating this safety feature may create a potential hazard to the servicer and the user. Extension cords which do not incorporate the polarizing feature should never be used.
9. After reassembly of the unit, always perform an ac leakage test or resistance test from the line cord to all exposed metal parts of the cabinet. Also, check all metal control shafts (with knobs removed), antenna terminals, handles, screws, etc. to be sure the unit may be safely operated without danger of electrical shock .

* Broken line — • — • — • — • —

### Implosion

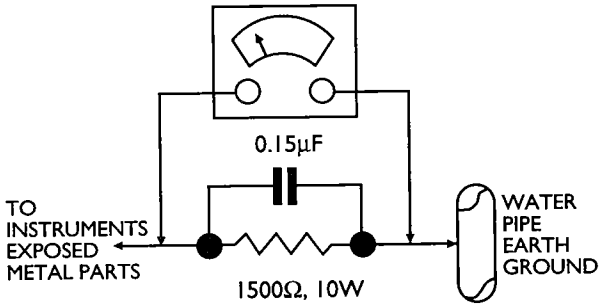
1. All picture tubes used In current model receivers are equipped with an integral implosion system. Care should always be used, and safety glasses worn, whenever handling any picture tube. Avoid scratching or otherwise damaging the picture tube during installation.
2. Use only replacement tubes specified by the manufacturer.

### X-radiation

1. Be sure procedures and instructions to all your service personnel cover the subject of X-radiation. Potential sources of X-rays in TV receivers are the picture tube and the high voltage circuits. The basic precaution which must be exercised is to keep the high voltage at the factory recommended level.
2. To avoid possible exposure to X-radiation and electrical shock, only the manufacturer's specified anode connectors must be used.
3. It is essential that the service technician has an accurate HV meter available at all times. The calibration of this meter should be checked periodically against a reference standard.
4. When the HV circuitry is operating properly there is no possibility of an X-radiation problem. High voltage should always be kept at the manufacturer's rated value - no higher - for optimum performance. Every time a color set is serviced, the brightness should be run up and down while monitoring the HV with a meter to be certain that the HV is regulated correctly and does not exceed the specified value. We suggest that you and your technicians review test procedures so that HV and HV regulation are always checked as a standard servicing procedure, and the reason for this prudent routine is clearly understood by everyone. It is important to use an accurate and reliable HV meter. It is recommended that the HV reading be recorded on each customer's invoice, which will demonstrate a proper concern for the customer's safety.
5. When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, reduce the line voltage by means of a Variac to bring the HV into acceptable limits while troubleshooting. Do not operate the chassis longer than necessary to locate the cause of the excessive HV.
6. New picture tubes are specifically designed to withstand higher operating voltages without creating undesirable X-radiation. It is strongly recommended that any shop test fixture which is to be used with the new higher voltage chassis be equipped with one of the new type tubes designed for this service. Addition of a permanently connected HV meter to the shop test fixture is advisable. The CRT types used in these new sets should never be replaced with any other types, as this may result in excessive X-radiation.
7. It is essential to use the specified picture tube to avoid a possible X-radiation problem.
8. Most TV receivers contain some type of emergency "Hold Down" circuit to prevent HV from rising to excessive levels in the presence of a failure mode. These various circuits should be understood by all technicians servicing them, especially since many hold down circuits are inoperative as long as the receiver performs normally.

### Leakage Current Cold Check

1. Unplug the ac line cord and connect a jumper between the two prongs of the plug.
2. Turn on the power switch.
3. Measure the resistance value between the jumpered ac plug and all exposed cabinet parts of the receiver, such as screw heads, antennas, and control shafts. When the exposed metallic part has a return path to the chassis, the reading should be between 1 megohm and 5.2 megohms. When the exposed metal does not have a return path to the chassis, the reading must be infinity. Remove the jumper from the ac line cord.




### Leakage Current Hot Check

1. Do not use an isolation transformer for this test. Plug the completely reassembled receiver directly into the ac outlet.
2. Connect a 1.5k, 10W resistor paralleled by a 0.15uF. capacitor between each exposed metallic cabinet part and a good earth ground such as a water pipe, as shown above.
3. Use an ac voltmeter with at least 5000 ohms/ volt sensitivity to measure the potential across the resistor.
4. The potential at any point should not exceed 0.75 volts. A leakage current tester may be used to make this test; leakage current must not exceed 0.5milliamps. If a measurement is outside of the specified limits, there is a possibility of shock hazard. The receiver should be repaired and rechecked before returning it to the customer.
5. Repeat the above procedure with the ac plug reversed. (Note:An ac adapter is necessary when a polarized plug Is used. Do not defeat the polarizing feature of the plug.)

### Picture Tube Replacement

The primary source of X-radiation in this television receiver is the picture tube. The picture tube utilized in this chassis is specially constructed to limit X-radiation emissions. For continued X-radiation protection, the replacement tube must be the same type as the original, including suffix letter, or a Philips approved type.

### Parts Replacement

Many electrical and mechanical parts in Philips television sets have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. The use of a substitute part which does not have the same safety characteristics as the Philips recommended replacement part shown in this service manual may create shock, fire, or other hazards.

**WARNING:** Before removing the CRT anode cap, turn the unit **OFF** and short the HIGH VOLTAGE to the CRT DAG ground.
**SERVICE NOTE:** The CRT DAG is not at chassis ground.

## CABINET REPLACEMENT PARTS LIST (as of 3-3-97)
## Philips Models (continued)

| | Description | Part No. |
|---|---|---|
| **00OCV725C1091, C121 (25" Models)** | | |
| | Anode Clip | 4835 256 97264 |
| | Button Asm. | 4835 410 37233 |
| | Crystal | 4835 450 67205 |
| | Front | 0014 717 90018 |
| | Back | 4835 432 97619 |
| | Door, Card | 4835 432 17771 |
| | Frame, Chassis | 4835 432 17904 |
| | Nameplate | 4835 459 17546 |
| ⚠ | CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ | Degaussing Coil | 4835 157 97077 |
| | Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ | Yoke | 4835 150 17108 |
| ⚠ | Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ | AC Cord | 3135 010 00590 |
| | Speaker 2X3.5" | 4835 240 27006 |
| | Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| | Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| **26LL57 0121, 1121** | | |
| | Anode Clip | 4835 256 97264 |
| | Pushbuttons | 4835 410 37239 |
| | Front | 0014 709 60061 |
| | Back | 4835 432 97614 |
| | Frame, Chassis | 4835 432 17904 |
| | Jack Panel, Plastic | 4835 459 47085 |
| ⚠ | CRT (A63AFW36X) (0121) | 4835 131 27127 |
| ⚠ | CRT (A63AFW86X) (1121) | 4835 131 27131 |
| ⚠ | Degaussing Coil (0121) | 4835 157 97077 |
| ⚠ | Degaussing Coil (1121) | 4835 157 97084 |
| | Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ | Yoke | 4835 150 17108 |
| ⚠ | Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ | AC Cord | 4835 321 17109 |
| ⚠ | AC Adapter | 4835 015 57126 |
| | Speaker 3" | 2422 264 00273 |
| | Yoke Wedges (3 used) | 4835 535 27001 |
| | Owner's Manual (0121) | 00IB 777 8S001 |
| | Owner's Manual (1121) | 00IB 777 9S001 |
| | Remote Transmitter (T216JGPH01) | 4835 219 17646 |
| | Remote Battery | 4835 138 17001 |

| | Description | Part No. |
|---|---|---|
| **26LW57 2221, 3221** | | |
| | Anode Clip | 4835 256 97264 |
| | Buttons | 4835 410 97024 |
| | Crystal | 4835 450 67203 |
| | Front | 0014 722 40018 |
| | Back | 4835 432 97614 |
| | Frame, Chassis | 4835 432 17904 |
| | Jack Panel, Plastic | 0014 747 20016 |
| | Nameplate | 4835 459 17546 |
| ⚠ | CRT (A63AFW36X) (2221) | 4835 131 27127 |
| ⚠ | CRT (A63AFW86X) (3221) | 4835 131 27131 |
| ⚠ | Degaussing Coil (2221) | 4835 157 97077 |
| ⚠ | Degaussing Coil (3221) | 4835 157 97084 |
| | Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ | Yoke | 4835 150 17108 |
| ⚠ | Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ | AC Cord | 4835 321 17109 |
| ⚠ | AC Adapter | 4835 015 57126 |
| | Speaker 3" | 4835 240 37022 |
| | Yoke Wedges (3 used) | 4835 535 27001 |
| | Owner's Manual (2221) | 00IB 787 1S001 |
| | Owner's Manual (3221) | 00IB 787 2S001 |
| | Remote Transmitter (T216JGPH01) | 4835 219 17646 |
| | Remote Battery | 4835 138 17001 |
| **0029LL67 0121, 1121 27" Model** | | |
| | Anode Clip | 4835 256 97264 |
| | Buttons, Function | 4835 410 97033 |
| | Crystal | 4835 459 17559 |
| | Front | 0014 737 20017 |
| | Back | 4835 432 97657 |
| | Frame, Chassis | 4835 432 17905 |
| | Jack Panel, Plastic | 0014 747 20016 |
| | Nameplate | 4835 459 17546 |
| ⚠ | CRT (A68AHD32X) (0121) | 4835 131 27153 |
| ⚠ | CRT (A68AGN82X) (1121) | 4835 131 27138 |
| ⚠ | Degaussing Coil (0121) | 4835 157 97058 |
| ⚠ | Degaussing Coil (1121) | 4835 157 97065 |
| | Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ | Yoke | 4835 150 17139 |
| ⚠ | Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ | AC Adapter (1121) | 4835 015 57126 |
| ⚠ | AC Cord | 4835 321 17109 |
| | Speaker 2.25X5" (2 used) | 4835 240 27017 |
| | Speaker Grille, Right | 0014 737 70005 |
| | Speaker Grille, Left | 0014 737 70006 |
| | Speaker Extension (2 used) | 4835 432 17873 |
| | Yoke Wedges (3 used) | 4835 535 27001 |
| | Owner's Manual (0121) | 00IB 778 0S001 |
| | Owner's Manual (1121) | 00IB 778 1S001 |
| | Remote Transmitter (T216JGPH01) | 4835 219 17646 |
| | Remote Battery | 4835 138 17001 |

—— —— —— No Part Number Available at Time of Printing.

## CABINET REPLACEMENT PARTS LIST (as of 3-3-97)
## Philips/Magnavox Models (continued)

| Description | Part No. |
|---|---|
| **0027TS54C101, C121** | |
| Anode Clip | 4835 256 97264 |
| Buttons (4) | 4835 432 17667 |
| Lens, IR | 4835 450 67202 |
| Crystal | 4835 450 67213 |
| Front | 4835 430 67151 |
| Back | 0014 734 00003 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20016 |
| ⚠ CRT (A68AHD32X ) | 0033 029 00032 |
| ⚠ Degaussing Coil | 4835 157 97058 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |

| Description | Part No. |
|---|---|
| **0027TS54C101, C121** | |
| ⚠ Yoke | 4835 150 17139 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 2.25X5" (2 used) | 4835 240 27007 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C103) | 4835 535 27006 |
| Owner's Manual (C121) | 00IB 776 1E001 |
| Owner's Manual (C101) | 00IB 776 1E001 |
| Remote Transmitter (Y227JAAA01) | ---- --- ------ |
| Remote Battery | 4835 138 17001 |

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## CABINET REPLACEMENT PARTS LIST (as of 3-3-97)
## Philips Models

| Description | Part No. |
|---|---|
| **PB7013 C121 (13" Model)** | |
| Buttons | 4835 410 97028 |
| Front | 0014 720 80011 |
| Back | 0014 721 90010 |
| Jack Panel, Plastic | 0014 725 00007 |
| ⚠ CRT (A34JLL40X69W) | 9322 105 97682 |
| ⚠ Degaussing Coil | 4835 157 97092 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ AC Cord | 3135 017 00180 |
| ⚠ AC Adapter | 4835 015 57126 |
| Strain Relief f/AC Cord | 0014 735 50001 |
| Speaker 3" | 4835 240 37002 |
| Owner's Manual | 00IB 786 4E001 |
| Remote Transmitter | 4835 219 17532 |
| Remote Battery | 4835 138 17001 |
| **HC9719 C121, C127 (19" Model)** | |
| Anode Clip | 4835 256 97264 |
| Buttons | 4835 410 97032 |
| Front | 0014 746 80004 |
| Back | 4835 432 97608 |
| Nameplate | 4835 459 17515 |
| Panel Card | 0014 749 40003 |
| ⚠ CRT (A48AFN36X) (C121) | 4835 131 27142 |
| ⚠ CRT (A48KZL70X) (C127) | 9322 112 74682 |
| ⚠ Degaussing Coil | 4835 157 97087 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke (C121) | 4835 150 17133 |
| ⚠ Yoke (C127) | 4835 150 17135 |
| ⚠ Convergence & Purity Asm. | 4835 150 27007 |
| ⚠ AC Cord | 0046 139 00006 |
| Speaker 2X3.5" | 4835 240 27006 |
| Speaker Grille (Right) | 0014 723 80018 |
| Speaker Grille (Left) | 0014 723 80020 |
| Yoke Wedges (3 used) | 4835 535 27001 |

| Description | Part No. |
|---|---|
| **PC7220C121 (20" Model)** | |
| Buttons | 4835 410 97032 |
| Front | 0014 729 80008 |
| Back | 4835 432 97662 |
| Chassis Frame | 4835 432 17903 |
| Nameplate | 4835 459 17515 |
| Door Card | 4835 432 17771 |
| Panel Card | 0014 749 40007 |
| ⚠ CRT (A51KZR50X) | 4835 131 27129 |
| ⚠ Degaussing Coil | 0036 805 00003 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17132 |
| ⚠ Convergence & Purity Asm. | 4835 150 27007 |
| ⚠ AC Cord | 3135 010 00590 |
| Speaker 2X3.5" | 4835 240 27006 |
| Speaker Grille (Right) | 0014 723 80018 |
| Speaker Grille (Left) | 0014 723 80020 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Phono Adapter | 4835 265 97026 |
| **21LL37 0121, 1121 (20" Model)** | |
| Anode Clip | 4835 256 97264 |
| Antenna F-Type | 4835 303 57017 |
| Buttons | 4835 410 97032 |
| Front | 0014 723 30009 |
| Back | 4835 432 97608 |
| Frame, Chassis | 4835 432 17903 |
| Jack Panel, Plastic | 0014 747 20015 |
| Nameplate | 0015 235 40005 |
| ⚠ CRT (A51JAR70X) (0121) | 9322 112 76682 |
| ⚠ CRT (A51JAR72X) (1121) | 9322 112 77682 |
| ⚠ Degaussing Coil (0121) | 0036 805 00003 |
| ⚠ Degaussing Coil (1121) | 0036 805 00008 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17138 |
| ⚠ Convergence & Purity Asm. | 4835 150 27007 |
| ⚠ AC Cord | 4835 321 17109 |
| ⚠ AC Adapter | 4835 015 57126 |
| Speaker 2X3.5" | 4835 240 27001 |
| Speaker Grille (Right) | 0014 723 80018 |
| Speaker Grille (Left) | 0014 723 80020 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Owner's Manual (0121) | 00IB 777 6S001 |
| Owner's Manual (1121) | 00IB 777 7S001 |
| Remote Transmitter (RC0732/01) | ---- --- ------ |
| Remote Battery | 4835 138 17001 |

— — — No Part Number Available at Time of Printing.

## CABINET REPLACEMENT PARTS LIST (as of 3-3-97)
## Philips/Magnavox Models (continued)

### 0025TR15C101, C121

| Description | Part No. |
|---|---|
| Anode Clip | 4835 256 97264 |
| Buttons | 4835 410 97024 |
| Crystal | 4835 450 67203 |
| Lens, IR | 4835 450 67202 |
| Front | 0014 722 40016 |
| Back | 4835 432 97614 |
| Frame, Chassis | 4835 432 17904 |
| Nameplate | 0015 235 40011 |
| Jack Panel, Plastic | 0014 747 20014 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37002 |
| Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Owner's Manual | 00IB 775 3E001 |
| Remote Transmitter (T217JGPM01) | 4835 219 17694 |
| Battery Door f/Remote | 4835 219 17694 |
| Remote Battery | 4835 138 17001 |

### 0025TS54C121

| Description | Part No. |
|---|---|
| Anode Clip | 4835 256 97264 |
| Pushbuttons | 4835 410 37239 |
| Lens, IR | 4835 450 67202 |
| Front | 0014 709 60063 |
| Back | 4835 432 97593 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20016 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37002 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Owner's Manual | 00IB 775 6E001 |
| Remote Transmitter (T217JGPM01) | 4835 219 17694 |
| Remote Battery | 4835 138 17001 |

### 00HD2717C101, C121 (27" Models)

| Description | Part No. |
|---|---|
| Anode Clip | 4835 256 97264 |
| Buttons (4) | 4835 432 17667 |
| Lens, IR | 4835 450 67202 |
| Crystal | 4835 450 67213 |
| Front | 0014 727 00019 |
| Back | 4835 432 97591 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20014 |
| ⚠ CRT (A68AHD32X) | 4835 131 27153 |
| ⚠ Degaussing Coil | 4835 157 97058 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17139 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 2.25X5" (2 used) | 4835 240 27007 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| Owner's Manual | 00IB 775 9E001 |
| Remote Transmitter (Y227JAAA01) | 3139 148 54340 |
| Remote Battery | 4835 138 17001 |

### 00TS2744C103, C121

| Description | Part No. |
|---|---|
| Anode Clip | 4835 256 97264 |
| Buttons (4) | 4835 432 17667 |
| Lens, IR | 4835 450 67202 |
| Crystal | 4835 450 67213 |
| Front | 0014 727 00019 |
| Back | 4835 432 97591 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | ---- --- ----- |
| ⚠ CRT (A68AGN32X) | 4835 131 27123 |
| ⚠ Degaussing Coil | 4835 157 97058 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17098 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 2.25X5" (2 used) | 4835 240 27007 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C103) | 4835 535 27006 |
| Owner's Manual | 00IB 775 9E001 |
| Remote Transmitter | 3139 148 54340 |
| Remote Battery | 4835 138 17001 |

### 00TS2754C101, C121

| Description | Part No. |
|---|---|
| Anode Clip | 4835 256 97264 |
| Button Asm. | 4835 432 37244 |
| Crystal | 4835 450 67214 |
| Front | 0014 716 70033 |
| Back | 0014 734 00003 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20016 |
| Nameplate | 0015 235 40011 |
| CRT (A68AHD32X) | 0033 029 00032 |
| ⚠ Degaussing Coil | 4835 157 97058 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 0036 804 80001 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" (2 used) | 4835 240 37002 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| Owner's Manual | 00IB 776 0E001 |
| Remote Transmitter (Y227JAAA01) | ---- --- ------ |
| Remote Battery | 4835 138 17001 |

### 00TS2768C101, C121

| Description | Part No. |
|---|---|
| Anode Clip | 4835 256 97264 |
| Button Asm. | 4835 432 37244 |
| Crystal | 4835 450 67214 |
| Front | 0014 716 70033 |
| Back | 0014 734 00003 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20017 |
| Nameplate | 0015 235 40011 |
| ⚠ CRT (A68AHD32X) | 4835 131 27153 |
| ⚠ Degaussing Coil | 4835 157 97058 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17139 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" (2 used) | 2422 264 00273 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| Owner's Manual | 00IB 776 2E001 |
| Remote Transmitter (Y147KAAA01) | ---- --- ------ |
| Remote Battery | 4835 138 17047 |



—— — —— No Part Number Available at Time of Printing.

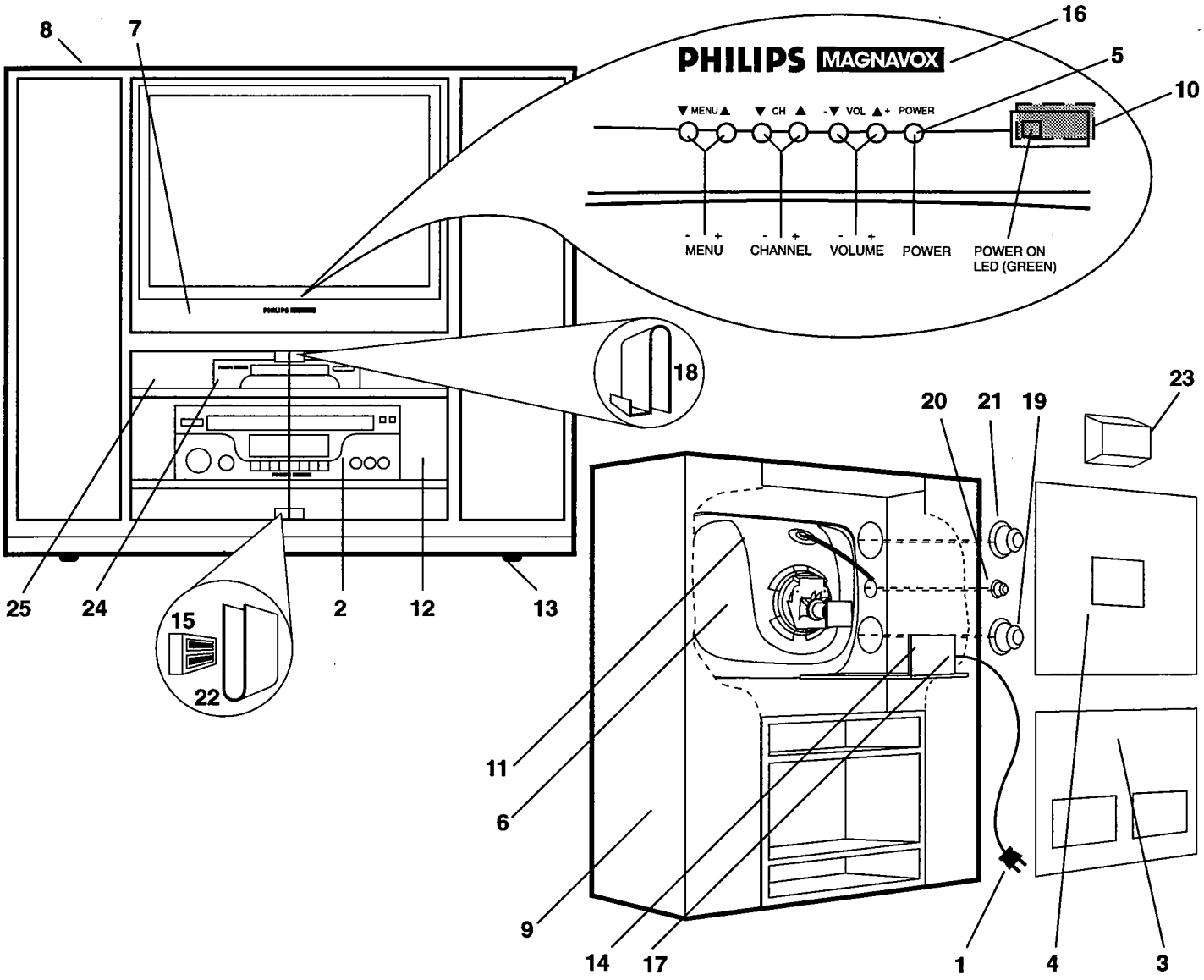
## CABINET REPLACEMENT PARTS LIST (as of 3-3-97)
## Philips/Magnavox Models

| Description | Part No. |
|---|---|
| **00HD2518C121 (25" Models)** | |
| Anode Clip | 4835 256 97264 |
| Pushbuttons | 4835 410 37239 |
| Lens, IR | 4835 450 67202 |
| Front | 4835 430 57181 |
| Back | 4835 432 97619 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20014 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37002 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Owner's Manual | 00IB 775 2E001 |
| Remote Transmitter | 3139 148 54340 |
| Remote Battery | 4835 138 17001 |
| **TR2502C121** | |
| Anode Clip | 4835 256 97264 |
| Pushbuttons | 4835 410 37239 |
| Lens, IR | 4835 450 67202 |
| Front | 4835 430 57181 |
| Back | 4835 432 97614 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20014 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37002 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Owner's Manual | 00IB 775 2E001 |
| Remote Transmitter | 3139 148 54340 |
| Remote Battery | 4835 138 17001 |
| **00TR2517C121** | |
| Anode Clip | 4835 256 97264 |
| Pushbuttons | 4835 410 37239 |
| Lens, IR | 4835 450 67202 |
| Front | 0014 7096 0063 |
| Back | 4835 432 97614 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20014 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37002 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Owner's Manual | 00IB 775 4E001 |
| Remote Transmitter (T217JGPM01) | 4835 219 17694 |
| Battery Door f/Remote | 4835 432 37087 |
| Remote Battery | 4835 138 17001 |

| Description | Part No. |
|---|---|
| **00TS2544C121** | |
| Anode Clip | 4835 256 97264 |
| Pushbuttons | 4835 410 37239 |
| Front | 0014 709 60062 |
| Back | 4835 432 97614 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20014 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 2422 264 00273 |
| Yoke Wedges (3 used) | 4835 535 27001 |
| Owner's Manual | 00IB 775 5E001 |
| Remote Transmitter (RC0801/17) | 3139 148 54340 |
| Remote Battery | 4835 138 17001 |
| **00TS2554C101, C121** | |
| Anode Clip | 4835 256 97264 |
| Button Asm. | 4835 410 97024 |
| Lens, IR | 4835 450 67202 |
| Crystal | 4835 450 67203 |
| Front | 0014 722 40016 |
| Back | 4835 432 97593 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20016 |
| Nameplate | 0015 235 40011 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37002 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| Owner's Manual | 00IB 775 7E001 |
| Remote Transmitter (T217JGPM01) | 4835 219 17694 |
| Battery Door f/Remote | 4835 432 37087 |
| Remote Battery | 4835 138 17001 |
| **00TS2574C101, C121** | |
| Anode Clip | 4835 256 97264 |
| Button Asm. | 4835 410 37233 |
| Lens, IR | 4835 450 67202 |
| Crystal | 4835 450 67205 |
| Front | 0014 717 90016 |
| Back | 4835 432 97593 |
| Frame, Chassis | 4835 432 17904 |
| Jack Panel, Plastic | 0014 747 20017 |
| Nameplate | 0015 235 40011 |
| ⚠ CRT (A63AFW36X) | 4835 131 27127 |
| ⚠ Degaussing Coil | 4835 157 97077 |
| Degaussing Coil Holder (4 used) | 4835 256 97265 |
| ⚠ Yoke | 4835 150 17108 |
| ⚠ Convergence & Purity Asm. | 4835 150 27008 |
| ⚠ AC Cord | 4835 321 17012 |
| Speaker 3" | 4835 240 37022 |
| Yoke Wedges (3 used) (C121) | 4835 535 27001 |
| Yoke Wedges (3 used) (C101) | 4835 535 27006 |
| Owner's Manual | 00IB 775 8E001 |
| Remote Transmitter (Y227JAAA01) | ---- --- ----- |
| Remote Battery | 4835 138 17001 |

— — — No Part Number Available at Time of Printing.

# TYPICAL CONSOLE MODEL EXPLODED VIEW




| REF. | DESCRIPTION | REF. | DESCRIPTION |
|---|---|---|---|
| 1 | AC Line Cord | 14 | Jack Panel |
| 2 | Audio System | 15 | Magnetic Catch |
| 3 | Back Cover Lower | 16 | Name Plate |
| 4 | Back Cover Upper | 17 | Jack Panel Overlay (Plastic) |
| 5 | Buttons | 18 | Pull |
| 6 | CRT | 19 | Speaker |
| 7 | Cabinet Front | 20 | Speaker Tweeter |
| 8 | Cabinet Top | 21 | Speaker Woofer |
| 9 | Console Frame | 22 | Strike |
| 10 | Crystal | 23 | Tube Cup |
| 11 | Degaussing Coil | 24 | VCR |
| 12 | Glass Door | 25 | VCR Block |
| 13 | Industrial Caster | | |